
**TARGETED BROWNFIELDS ASSESSMENT
ASBESTOS CONTAINING BUILDING MATERIALS AND
LEAD-BASED PAINT INSPECTIONS**



**Paducah Palace Theatre
815 8th Street
Paducah, Cottle County, Texas 79248**

Prepared for:

U.S. Army Corps of Engineers (USACE)
Fort Worth District
819 Taylor Street, Room 2A19
Fort Worth, Texas 76102-0300

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Report Date: June 11, 2012

dse Project N^o: 1037508

TARGETED BROWNFIELDS ASSESSMENT
ASBESTOS CONTAINING BUILDING MATERIALS AND
LEAD-BASED PAINT INSPECTIONS

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June 11, 2012

Ms. Beverly Post
United States Army Corps of Engineers, Fort Worth District
819 Taylor Street
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Re: Targeted Brownfields Assessment
Asbestos-Containing Building Materials Inspection
Paducah Palace Theater
815 Eighth Street
Paducah, Texas 79248
dse Project No. 1037508

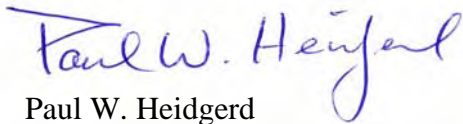
Dougherty Sprague Environmental, Inc. (**dse**) has completed an asbestos-containing building materials (ACBMs) inspection of the Paducah Palace Theater located in Paducah, Texas. The findings of our work, together with recommendations and limitations are presented in the attached report.

The following ACBMs were identified in the building:

- **Silver Paint / Black Roofing Mastic / Tan Caulking Compound**
Front Facade
- **Brown Mastic** on 1' x 1' Acoustic Wall Tiles
Seating Area Walls
- **"Popcorn" Surface Texture**
Entrance Area Ceiling and Upper Walls
- **"Popcorn" Surface Texture and Joint Compound**
Lobby Ceiling
- **"Popcorn" Surface Texture with Vermiculite**
Ticket Booth Ceiling
- **12" x 12" Cream w/ "Marble Chips" Vinyl Composition Tile (VCT) & Black Mastic**
Concession Area Floor
- **12" x 12" Tan with Gray and Brown VCT and Black Mastic**
Office Floor
- **12" x 12" Olive VCT and Black Mastic**
Lobby Floor

- **9" x 9" Tan VCT and Black Mastic**
Barber Shop Floor - Bottom Layer
- **12" x 12" White "Marble" VCT and Black Mastic**
Barber Shop Floor - Top Layer
- **12" x 12" Brown VCT and Black Mastic**
Ticket Booth Floor

We will be glad to answer any questions concerning this report. It has been a pleasure providing environmental services for US Army Corps of Engineers, Fort Worth District and we look forward to being of continued service.



Paul W. Heidgerd
Individual Asbestos Consultant
TDSHS License No. 10-5739

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TARGETED BROWNFIELDS ASSESSMENT ASBESTOS-CONTAINING BUILDING MATERIALS INSPECTION REPORT

Paducah Palace Theater
815 Eighth Street
Paducah (Cottle County), Texas 79248

dse Project Number: 1037508

1.0 INSPECTION

On April 9 and 10, 2012, Dougherty Sprague Environmental, Inc. (**dse**), as authorized by Joyce A. Johns, Contract Specialist for the United States Army Corps of Engineers (USACE), conducted an inspection for the presence of asbestos-containing building materials (ACBMs) in the building located at 815 Eighth Street in Paducah, Texas (the Building), Latitude 34° 00' 49.65" N, Longitude 100° 18' 02.20" W. This ACBMs Inspection Report is being provided to the City of Paducah through the U.S. Environmental Protection Agency (EPA) Region 6 Targeted Brownfields Assessment (TBA) Program.

The ACBMs inspection was performed by **dse** employee Paul Heidgerd (the Inspector), who is licensed by the Texas Department of State Health Services (TDSHS) as an Individual Asbestos Consultant. In addition, **dse** is licensed as an Asbestos Consultant Agency by the TDSHS. Copies of both licenses are attached in **Appendix H**.

The purpose of the ACBMs inspection was to identify, assess, sample and analyze suspect ACBMs in preparation for the possible renovation or demolition of the Building. The inspection focused on identifying and sampling suspect ACBMs that would be disturbed during renovation or demolition of the Building. No previous asbestos inspections or abatement reports for the Building were provided to the Inspector.

Appendix A provides useful background information about asbestos as well as helpful guidance distributed by the TDSHS. The TDSHS administers and enforces the Texas Asbestos Health Protection Rules (TAHPRs). This ACBMs inspection was performed in general accordance with guidelines established by TDSHS and the Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) protocols. The AHERA protocols define criteria for inspections of suspect ACBMs in school buildings and have been adopted by the TDSHS as guidelines for performing ACBMs inspections of public buildings in Texas. **Appendix B** outlines **dse**'s ACBMs Inspection Protocol.

The Building was first evaluated to determine the materials and methods used to construct the Building to aid in identification of suspect ACBMs. The Building Description Form below was prepared for the Building. No building drawings were provided to the Inspector. The Inspector took approximate measurements of the Building and prepared sketches to represent the Building floorplan; however, the building drawings and the quantities of ACBMs identified are strictly

estimates and should only be used as a “Rough Order of Magnitude” (ROM). Estimates for solicitation of demolition or abatement bids should be verified by contractors prior to finalizing these types of bids.

Most areas of the Building were accessible during the inspection with the exception of the Balcony and Stage areas. The roof of the Building had collapsed in several places, most notably over the north end of the Balcony and the entire Stage. Floors of some rooms in the Building were partially obscured by rubble and/or stored furniture, etc.

BUILDING DESCRIPTION FORM	
Name: Paducah Palace Theater	Inspection Dates: April 9 and 10, 2012
Use: Former Theater and Barber Shop	Age: Built in early 1930s
Area: Main Floor: Approximately 5,500 ft ² Balcony: Approximately 1,200 ft ²	
Number of Floors: Two	Basement: No
Attic: Above Balcony Only – Not Accessible	Crawl Space: No
Exterior: Structural brick walls with brick veneer.	
Roof: Built-up Asphalt	
Foundation: Concrete Slab	
Interior Flooring: Exposed Concrete, Wood, Vinyl Composition Tile (VCT), Sheet Vinyl Flooring and Carpet	
Interior Framing: Primarily brick covered with two part plaster system, some wood 2x4 studs and drywall or wood paneling. Six steel trusses in roof structure.	
Interior Wall Finishes: Two Part Plaster System, Drywall with taped and bedded joints, Wood Paneling on top of other finishes or mounted directly to studs.	
Interior Ceiling Finishes: Two Part Plaster System, Two Part Plaster System on Fiberboard, Three types of Suspended Acoustical Ceiling Tile, Drywall nailed to wood planking.	
Lighting: Primarily incandescent with some fluorescent – No electricity at time of inspection.	
HVAC: Gas Heaters and Exterior Evaporative Cooler. Both Non-operational.	
Domestic Hot Water: Electric Hot Water Heater in barber Shop Area	
Out Buildings: None	
Elevators: None	
Previous Asbestos Inspections: No previous asbestos inspection or abatement reports were available.	
Planned Renovations: Unknown	
Planned Demolition: Unknown	

The Inspector identified 27 homogeneous areas of suspect ACBMs in the Building and collected three bulk samples from each of the areas. The TAHPRs require collection and analysis of a minimum of three bulk samples from a homogeneous area to define that building material as a non-ACBM. The following homogeneous areas of suspect ACBMs were identified in the Building:

- Red Brick and Mortar on Entrance Area Façade and Evaporative Cooler Support Walls
- Two Part Plaster System on Exterior Walls
- Tan Brick and Mortar on Exterior Walls
- Roofing Mastic / Silver Roof Sealant / Exterior Caulking Compound
- Roof System
- 1' x 1' Acoustic Ceiling Panels (Dot Pattern) on Walls of Seating Area
- 4' x 1.5' Acoustic Ceiling Tile in the Seating Area (No Mastic)
- 2' x 4' Smooth Suspended Acoustic Ceiling Panels in Concession Area and Office
- 2' x 4' Suspended Acoustic Ceiling Tile (Fissure) in Barber Shop
- Two Part Plaster System on Fiberboard on Walls and Ceilings
- Two Part Plaster System on Interior Walls and Ceilings
- Popcorn Texture in the Entrance Area
- Popcorn Texture / Joint Compound / Drywall in the Lobby
- Popcorn Texture w/ Vermiculite in the Ticket Booth
- Wood Wall Panel Mastic in Office, Concession, Entrance, Ticket Booth, Lobby and Barber Shop Area
- Asphalt Impregnated Fiberboard Around Stage Opening
- 12"x 12" Cream w/ "Marble" Chips VCT Flooring and Mastic in Concession Area
- 12" x 12" Tan w/ Gray and Brown VCT Flooring and Mastic in Office
- 12" x 12" Olive VCT Flooring and Mastic in Lobby
- 9"x 9" Tan VCT Flooring and Black Mastic in Barber Shop (Bottom Layer)
- 12" x 12" White "Marble" Look VCT Flooring and Mastic in Barber Shop (Top Layer)
- 12" x 12" Brown VCT Flooring and Mastic in Ticket Booth
- Brown Sheet Vinyl Flooring in the Projection Room
- Red Quarry Tile Thinset and Grout in the Entrance Area
- Green Ceramic Wall Tile / Grout / Mastic in Restrooms
- White Ceramic Floor Tile / Grout / Mastic in Restrooms
- Textured White Ceramic Floor Tile / Grout / Mastic in Women's Restroom

Materials that could not be readily separated, such as VCT and mastic, or wall systems (texture / joint compound / drywall), were identified as one homogeneous area; however, each layer of any bulk sample collected from that area was analyzed separately by the laboratory.

The AHERA guidelines do not require the sampling or analysis of any materials that the inspector identifies as wood, fiberglass, foam or rubber. Accordingly, these materials, if observed, were not identified as suspect ACBMs and no bulk samples were collected from them. In addition, the inspector may assume that any suspect ACBM contains asbestos if it can not be effectively sampled and/or analyzed to prove that it does not contain asbestos.

No suspect ACBMs were assumed to contain asbestos. The Inspector collected 81 bulk samples from the suspect ACBMs identified. In addition, four Blind Duplicate samples were selected from the 81 bulk samples collected for Quality Assurance (QA) purposes. All of the samples were submitted to Cates Laboratories in Dallas, Texas for polarized light microscopy (PLM) analysis. Following the Inspector's review of the initial laboratory report, three of the bulk samples and one of the duplicate samples with an asbestos content of 3% or less were selected for more detailed analyses using the Point Count Method.

Table 1 - Suspect ACBMs Bulk Sample Log in **Appendix C** describes the type (Surfacing, Thermal System Insulation or Miscellaneous), location, friability and condition of each of the 81 bulk samples collected. **Table 2 - Inventory of Homogeneous Areas** in **Appendix C** identifies each of the homogeneous areas of suspect ACBMs identified, its location, the number of bulk samples collected and the results of the laboratory analyses. In addition, the estimated quantities of any identified ACBMs are listed. **Figure 1 - Bulk Sample Locations** in **Appendix D** shows the location of each of the bulk samples collected. The **Photo Log** in **Appendix F** contains photographs of selected sample locations and finishes.

2.0 FINDINGS

The 85 suspect ACBMs bulk samples were delivered to Cates Laboratories in Dallas, Texas for analysis. Cates Laboratories is licensed by the TDSHS and accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). The bulk samples were analyzed by PLM coupled with dispersion staining techniques in accordance with the 1982 Federal Regulations in 40 CFR 763, Subpart F. Copies of the Laboratory Report and Chain of Custody are included in **Appendix E**. Copies of Cates Laboratories TDSHS License and NVLAP Accreditation are attached at the end of **Appendix E**.

The EPA has defined an ACBM as a building material that has an asbestos content greater than 1% as determined by PLM analysis. Eleven areas of ACBMs were identified in the Building. The ACBMs identified, their asbestos content, and estimated quantities are listed below:

- **Silver Paint / Black Roofing Mastic / Tan Caulking Compound**
5% 5% 3% Chrysotile Asbestos
1,016 ft² Front Façade
- **Brown Mastic on 1' x 1' Acoustic Wall Tiles**
2% Chrysotile Asbestos
1,016 ft² Seating Area Walls
- **“Popcorn” Surface Texture**
4.00% Chrysotile Asbestos
1,016 ft² Entrance Area Ceiling and Upper Walls
- **“Popcorn” Surface Texture and Joint Compound**
2.75% and 1.50% Chrysotile Asbestos
1,016 ft² Lobby Ceiling
- **“Popcorn” Surface Texture with Vermiculite**
2.25% Chrysotile Asbestos
1,016 ft² Ticket Booth Ceiling
- **12” x 12” Cream w/ “Marble Chips” Vinyl Composition Tile (VCT) & Black Mastic**
5% and 5% Chrysotile Asbestos
1,016 ft² Concession Area Floor
- **12” x 12” Tan with Gray and Brown VCT and Black Mastic**
3% and 5% Chrysotile Asbestos
1,016 ft² Office Floor
- **12” x 12” Olive VCT and Black Mastic**
3% and 5% Chrysotile Asbestos
1,016 ft² Lobby Floor

- **9" x 9" Tan VCT and Black Mastic**
10% and 5% Chrysotile Asbestos
1,016 ft² Barber Shop Floor - Bottom Layer
- **12" x 12" White "Marble" VCT and Black Mastic**
3% and 5% Chrysotile Asbestos
1,016 ft² Barber Shop Floor - Top Layer
- **12" x 12" Brown VCT and Black Mastic**
3% and 5% Chrysotile Asbestos
1,016 ft² Ticket Booth Floor

The ACMBs identified, their asbestos content and estimated quantities are tabulated in **Table 3 - Summary of ACMB Areas** in **Appendix C** and shown on **Figure 2 - Identified Surfacing and Miscellaneous ACMB Areas** and **Figure 3 - Identified ACMB Flooring Areas** in **Appendix D**.

The ACMB asphalt roofing products, caulking compound and resilient floor coverings (VCT) miscellaneous ACMBs identified in the Building were classified as NESHAP Category I non-friable ACMBs. All of the other non-friable ACMBs identified in the Building were classified as NESHAP Category II non-friable ACMBs. All of the friable ACMBs identified were classified as NESHAP Regulated Asbestos-Containing Materials (RACM).

QUALITY ASSURANCE

Duplicate Samples

Of the 85 bulk samples submitted to the laboratory for PLM analysis, four were Blind Duplicates collected by splitting another sample in half.

DUPLICATE SAMPLE PLM ANALYSIS RESULTS				
Duplicate Sample ID	Material	Duplicate Sample Asbestos Content	Source Sample ID	Source Sample Asbestos Content
DUP-01	Acoustic Ceiling Tile	None Detected	30	None Detected
DUP-02	Tan w/ Gray & Brown 12"x12" VCT Black Mastic	VCT: 3% Chrys. Mastic: 5% Chrys.	46	VCT: 3% Chrys. Mastic: 5% Chrys.
DUP-03	Two Part Plaster System	None Detected	60	None Detected
DUP-04*	"Popcorn" Texture w/ Vermiculite	3% Chrys.	37	3% Chrys.
NOTES: * DUP-04 was also Point Counted				

The laboratory identified the asbestos content of each of the four duplicate bulk samples submitted within an acceptable range of variability.

Point Counting

Four friable bulk samples with an asbestos content of 3% were selected for laboratory analysis using the Point Count Method. One of the samples was multi-layered and each distinct layer that was defined as an ACBM was Point Counted separately.

POINT COUNT ANALYSIS RESULTS			
Sample ID	Material	Asbestos Content by PLM	Asbestos Content by Point Count
31	“Popcorn” Texture	3% Chrysotile	4.00% Chrysotile
34 Layer 1	“Popcorn” Texture	3% Chrysotile	2.75% Chrysotile
34 Layer 2	Joint Compound	3% Chrysotile	1.50% Chrysotile
37	“Popcorn” Texture w/ Vermiculite	3% Chrysotile	2.25% Chrysotile
DUP-04 (Sample 37)	“Popcorn” Texture	3% Chrysotile	3.50% Chrysotile

Point Count analysis results closely correlated with the PLM analyses results in each layer of the four samples selected for Point Count analysis within an acceptable range of variability. In three of the five sample layers, Point Count analyses indicated asbestos contents lower than PLM analysis. In the other two layers, Point Count analyses indicated an asbestos content higher than PLM analysis. Point Count analyses did not indicate that any of the five layers analyzed could be re-classified as a non-ACBM (asbestos content less than or equal to 1%).

3.0 “ROUGH ORDER OF MAGNITUDE” ABATEMENT COST ESTIMATE

A “Rough Order of Magnitude” asbestos abatement cost estimate is attached in **Appendix G**. The quantities of ACBMs in the Building calculated by the Inspector were not verified by the Asbestos Abatement Contractor providing the cost estimate. If these numbers are used in Abatement Specifications, the Asbestos Abatement Contractor should verify the ACBMs quantity estimates. The Asbestos Abatement Contractor providing the cost estimate did not visit the Building. Therefore, the cost estimate must be viewed as a very rough estimate subject to change following an Asbestos Abatement Contractor and Asbestos Consultant walk-through. The cost estimate includes a separate line item for the cost to properly transport and dispose the wastes generated to a disposal facility permitted to take RACM and asbestos-containing waste.

Senate Bill 1258

Senate Bill 1258 passed by the Texas legislature in 2011 may be applicable to the City of Paducah or Cottle County and may save them the cost of transporting and disposing the waste generated during an abatement. SB1258 allows for the City or County to dispose of the RACM and asbestos-containing waste in a City or County TCEQ permit-by-rule landfill owned and managed by the City or County. The TCEQ rules applicable to SB1258 are currently undergoing review and are expected to be finalized soon. A copy of Senate Bill 1258 is attached at the end of **Appendix G**.

4.0 RECOMMENDATIONS

In Texas, building demolition and renovation activities that will potentially disturb any identified ACBMs are regulated by the TDSHS. ACBMs that will be disturbed during the renovation of a public building must be abated before the renovation activities begin; either by removal, encapsulation or enclosure. ACBMs in good condition that are not disturbed during building renovations do not need to be abated. Building owners who manage ACBMs in-place, or abate by enclosure or encapsulation, should have an Asbestos Operations and Maintenance Plan (O&M Plan) prepared and implemented.

In Texas, most ACBMs must be removed before a public building is demolished; however, the TDSHS may allow some types of ACBMs, primarily National Emission Standards for Hazardous Air Pollutants (NESHAP) Category I and II non-friable ACBMs that will not become friable during demolition, to remain in place during demolition of a public building if the demolition contractor can meet several stringent requirements. ACBMs may also remain in-place during demolition if a Professional Engineer, Registered Architect or a city, county, or state government official determines the building is structurally unsound and in danger of imminent collapse.

In Texas, abatement of ACBMs in a public building must be performed by a TDSHS-Licensed Asbestos Abatement Contractor employing TDSHS-Registered Asbestos Abatement Workers and must be monitored by a TDSHS-Licensed Air Monitoring Technician / Project Manager supervised by a TDSHS-Licensed Individual Asbestos Consultant. In addition, the Individual Asbestos Consultant must prepare and sign Asbestos Abatement Specifications for the abatement project. The TDSHS must be notified in writing a minimum of ten working days before any identified ACBMs are abated or before any public building is demolished, even if no ACBMs are identified.

All of the ACBMs identified in the Building should be removed and disposed following TDSHS and TCEQ rules and regulations before they are disturbed during any renovation activities, because they are friable or they have a high probability of becoming friable by the forces expected to act on them in the course of the renovation.

The Category I non-friable ACBMs identified in the Building do not need to be abated prior to demolition of the Building as long as they have not become friable and are not subjected to sanding, grinding, cutting or abrading. The Category II non-friable ACBM identified in the Building does not need to be abated prior to demolition of the Building as long as it has not become friable or has a high probability of becoming friable during the demolition. Waste containing Category I and II non-friable ACBMs generated during the demolition of the Building must be disposed following NESHAP and TCEQ rules and regulations for asbestos-containing waste material. All of the friable ACBMs identified in the Building is classified as RACM and must be removed and disposed following TDSHS and TCEQ rules and regulations prior to demolition.

5.0 LIMITATIONS

This ACBMs inspection of the building located at 815 Eighth Street in Paducah, Texas was performed on April 9 and 10, 2012. The ACBMs inspection was limited to the accessible areas of the Building. The Building was vacant, unlighted and damaged at the time of the inspection. Many areas of the Building were damaged by a leaking roof and exposure to the elements. Several areas of rotted flooring limited access to some rooms. In addition, the building finishes were obscured by debris in several areas.

No effort was made to open spaces such as pipechases, crawl spaces, walls and attics that did not have access doors or hatches. In addition, no building components such as HVAC equipment, electrical equipment, pipes or plumbing fixtures that would require specially trained workers to remove or reinstall were disturbed. Locked and/or occupied rooms were not inspected if similar “functional spaces” were accessible.

This ACBMs inspection was performed in general accordance to the AHERA inspection protocol. The potential exists that some suspect ACBMs were not observed by the inspector because they were located within wall or ceiling cavities or were otherwise obscured. If suspect ACBMs that were not observed by, or were inaccessible to, the inspector at the time of the inspection are encountered during renovation or demolition of the building, this inspection will need to be updated to include those suspect ACBMs.

The assessment, sampling and analysis of suspect ACBMs are highly interpretive activities. Great variability can be experienced in sampling results due to the nature of building construction materials and techniques, even with experienced personnel and careful sample collection. **dse** conducted this ACBMs inspection using trained professionals following applicable government regulations and guidelines, and utilizing a reasonable “Standard of Care”, but cannot represent guarantees or warrantee results. This sampling indicates conditions only at the time of sampling in the locations sampled. Conditions at other locations and times may vary significantly from these results, which were limited by budget, accessibility and time constraints.

In order to understand all of the implications of this report, this entire report, including all attachments and appendices, must be read and understood. Any reader failing to read the entire report can not hold **dse** responsible for any liabilities arising from this failure. If a reader has any questions about this report, its contents and/or conclusions, the reader should contact **dse** for clarification.

No warranty is expressed or implied by this report of the ACBMs inspection described herein. The limit of liability for omissions or errors, if identified, shall be the cost of these services rendered by **dse** to the USACE. No use of this report is authorized except as expressly discussed within. Furthermore, as this report is intended for the sole use of the USACE, the EPA and the City of Paducah (CLIENTS), reliance is not authorized to other parties except as clearly described in writing by both the CLIENTS and **dse**.

Paul W. Heidgerd 
TDSHS Individual Asbestos Consultant - License No. 105739

APPENDIX A

Background Information about Asbestos TDSHS Asbestos Information

BACKGROUND INFORMATION ABOUT ASBESTOS

Asbestos is a naturally occurring fibrous mineral. There are two major types of asbestos: amphiboles and serpentine. The amphiboles include amosite, anthophyllite, actinolite, crocidolite and tremolite. Serpentine includes chrysotile asbestos, which is the most common form of asbestos found in the United States. Its properties have been known for thousands of years. The Egyptians, Greeks and Romans all knew of asbestos and used it for its fire resistive properties. Not only is asbestos fire resistant, it is chemically and electrically inert, and it is very strong. These properties make asbestos a “natural” for use as a building material constituent, to enhance the performance of such materials.

The property that can make asbestos hazardous is its fibrous structure. Minerals can be crushed to make smaller pieces. However, when asbestos is crushed, it splits lengthwise (i.e., along its long axis). This makes thinner and thinner fibers. As the fibers get thinner and thinner, their aerodynamic properties improve, allowing them to stay airborne longer and increase the potential for exposure once they are disturbed.

Asbestos is a known human carcinogen. Exposure to airborne asbestos can cause asbestosis, lung cancer, mesothelioma, and other types of cancer. The use of asbestos in construction materials has raised concern about exposure to airborne asbestos in some buildings. If an asbestos-containing building material (ACBM) remains in good condition and is unlikely to be disturbed, the potential for exposure will be negligible. However, when ACBM is damaged or disturbed, asbestos fibers can be released, creating a potential hazard for building occupants.

Since the 1940's, asbestos has been included in such building products as spray-applied fireproofing, mechanical pipe and equipment insulation, acoustical plaster, acoustical ceiling tile, various mastics, adhesives, sealants, and resilient flooring. A list of suspect ACBMs prepared by the TDSHS is attached at the end of this section. EPA has estimated that 40%-60% of all buildings constructed or renovated in the United States since the 1940's have some type of ACBM in them.

It must be emphasized that the presence of ACBMs alone does not imply exposure; fibers must first be released from the material, become airborne and then must be inhaled. The greatest concern is ACBMs that are friable (i.e., when dry, may be crumbled, pulverized or reduced to powder by hand pressure). Four indicators of possible exposure are: (1) presence of ACBM (summarized as the amount and type of ACBM), (2) the condition of the ACBM, (3) the estimated airborne asbestos fiber concentrations and (4) the accessibility of the ACBM.

Although not currently required to do so by federal law, a prudent building owner will take steps to limit building occupants' potential exposure to airborne asbestos fibers. There are five major response actions available for dealing with asbestos once its presence is identified in a building. They are: (1) operations and maintenance programs, (2) repair, (3) encapsulation, (4) enclosure and (5) removal. Typically, the first two alternatives are considered together as operations and maintenance programs often include repair activities. The other three alternatives are typically referred to as “abatement”.

Deciding how to control ACBMs is complicated; assessment requires simultaneous consideration of the type and condition of the material, timing and alternative abatement methods, as well as constraints that are specific to individual buildings. The method of choice is dependent on many factors, including condition of the ACBM and its location and accessibility.

Texas Department of State Health Services

Asbestos Programs Branch

Potential Health Effects Associated with Asbestos Exposure

The adverse health effects associated with asbestos exposure have been studied extensively for many years. Results of these studies and epidemiologic investigations have demonstrated that inhalation of asbestos fibers may lead to increased risk of developing one or more diseases. Because asbestos fibers appear to be ubiquitous, virtually everyone is exposed to some extent. During autopsy, asbestos fibers have been detected in the lungs of most urban residents. Exactly why some people develop these diseases, and others do not, remains a mystery. Exposure of the general public is troublesome because we are talking about a large population which includes unhealthy as well as healthy persons. Moreover, exposure may begin during childhood, leaving a long period for the manifestation of asbestos-related disease. Furthermore, asbestos may enhance the carcinogenic effects of other materials. Any additional exposure to asbestos caused by living or working in Asbestos Containing Materials (ACM) should thus be avoided.

It is important to recognize that the majority of people who have died as a result of asbestos exposure were asbestos workers. These workers were frequently exposed to high concentrations of asbestos fibers each working day with little or no protection. The asbestos worker of today follows specific work practices and wears appropriate protection, including respirators, to minimize the risk of exposure.

Even with the natural defenses of the body, some dust particles inevitably reach the tiny air sacs of the lungs. When this occurs, large cells (called macrophages) attempt to engulf the particle and "digest" it. For this reason, they are sometimes called the lung's garbage collectors. However, because asbestos is a mineral fiber, the macrophages often are not successful. When this occurs, these cells deposit a coating on the fiber and may begin forming scar tissue around it. This is just another natural defense mechanism the body uses against unwanted dust and debris in the lung.

The typical latency periods of diseases caused by exposure to asbestos are from 15 to 40 years (depending on the particular disease). Smoking cigarettes increases the risk of getting lung cancer for someone who works in the asbestos industry. The importance of using the proper work practices and respiratory protection cannot be overemphasized to minimize the occurrence of diseases due to unnecessary asbestos exposure.

TDSHS ASBESTOS INFORMATION

TEXAS ADMINISTRATIVE CODE

TITLE 25	HEALTH SERVICES
PART 1	DEPARTMENT OF STATE HEALTH SERVICES
CHAPTER 295	OCCUPATIONAL HEALTH
SUBCHAPTER C	TEXAS ASBESTOS HEALTH PROTECTION
RULE §295.34	Asbestos Management in Facilities and Public Buildings

(i) A person may not install building materials or replacement parts as stated in subsection (j) of this section, in a public building unless:

(1) the person obtains a required MSDS showing that the materials or replacement parts contain 1.0% or less of asbestos; or

(2) the materials or replacement parts, according to the MSDS, contain more than 1.0% asbestos but there is no alternative material or part as demonstrated by the building owner or contractor.

(j) A MSDS shall be obtained for the following building materials or replacement parts including but not to:

(1) SURFACING MATERIALS:

- (A) acoustical plaster;
- (B) decorative plaster/stucco;
- (C) textured paint/coating;
- (D) spray applied insulation;
- (E) blown-in insulation;
- (F) fireproofing insulation;
- (G) joint compound; and
- (H) spackling compounds.

(2) THERMAL SYSTEM INSULATION:

- (A) taping compounds (thermal);
- (B) HVAC duct insulation;
- (C) boiler insulation;
- (D) breaching insulation;
- (E) pipe insulation; and
- (F) thermal paper products.

(3) MISCELLANEOUS MATERIALS:

- (A) cement pipes;
- (B) cement wallboard/siding;
- (C) asphalt/vinyl floor tile;
- (D) vinyl sheet flooring/vinyl wall coverings;
- (E) floor backing;
- (F) construction mastic;
- (G) ceiling tiles/lay-in ceiling panels;
- (H) packing materials;
- (I) high temperature gaskets;
- (J) laboratory hoods/table tops;
- (K) fire blankets/curtains;
- (L) elevator equipment panels;
- (M) elevator brake shoes;
- (N) ductwork flexible fabric connections;
- (O) cooling towers;
- (P) heating and electrical ducts;
- (Q) electrical panel partitions;
- (R) electrical cloth/electrical wiring insulation;
- (S) chalkboards;
- (T) roofing shingles/tiles;
- (U) roofing felt;
- (V) base flashing;
- (W) fire doors;
- (X) caulking/putties;
- (Y) adhesives/mastics; and
- (Z) wallboard.

NESHAP ACBM CATEGORIES

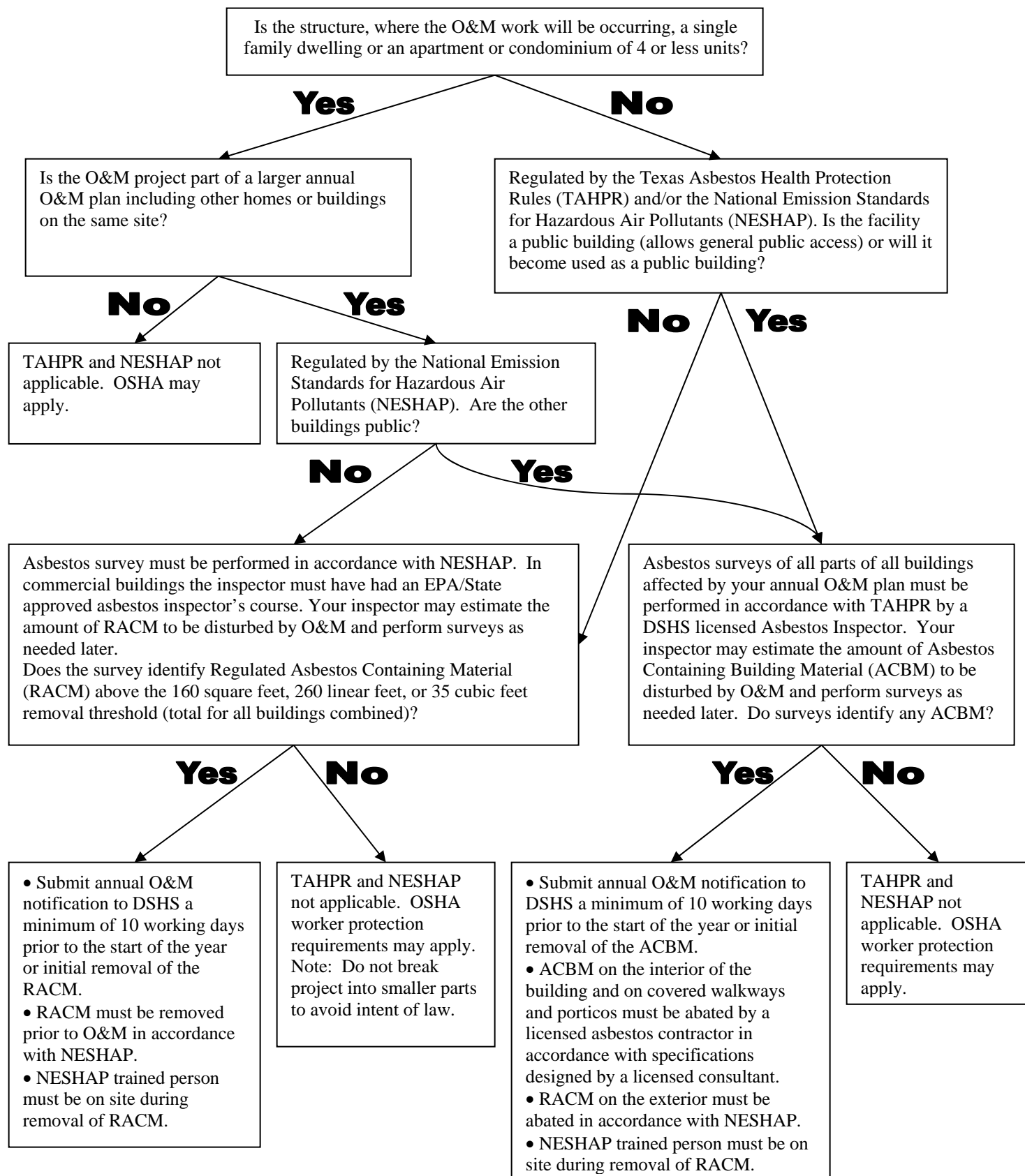
FRIABLE ACBM: A material that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.

CATEGORY I NON-FRIABLE ACBM: Non-friable ACBM packings, gaskets, resilient floor coverings, and asphalt roofing products.

CATEGORY II NON-FRIABLE ACBM: A non-friable ACBM that is not a Category I non-friable ACBM.

Texas Department of State Health Services

Operations and Maintenance Work

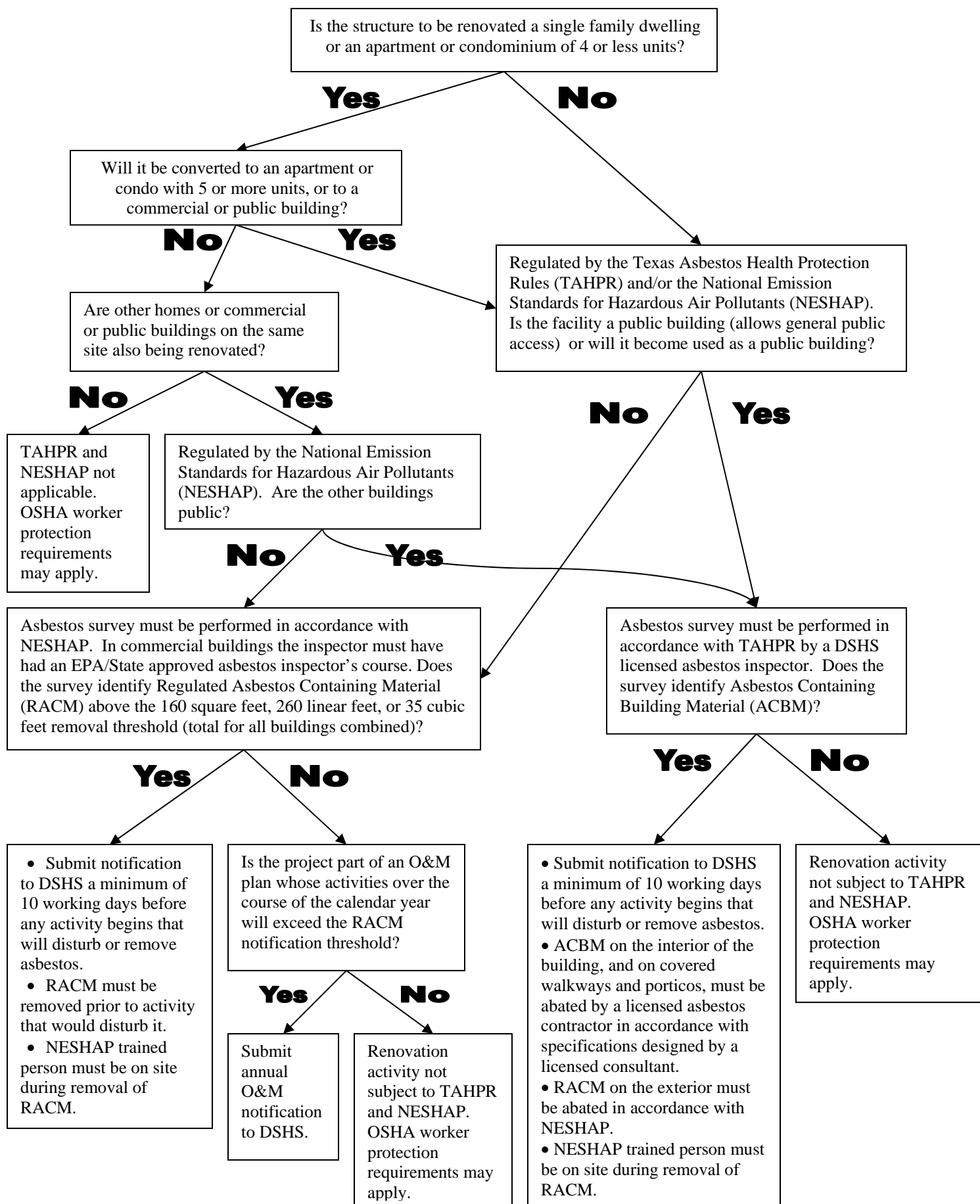


Note: Any single project disturbing greater than 160sf, 260ft, or 35cf must be notified separate from the O&M notice.

February 18, 2009

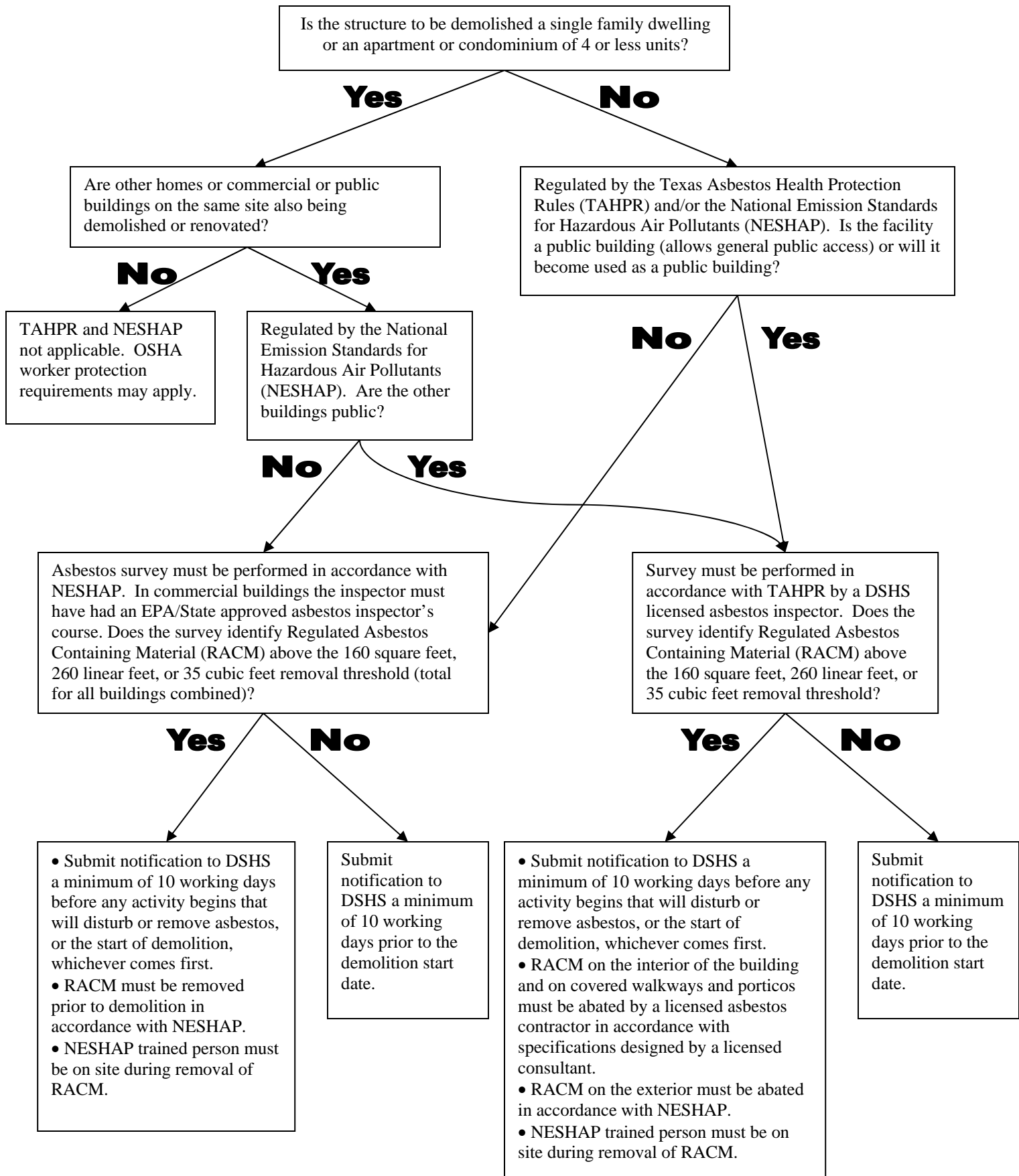
Texas Department of State Health Services

Renovation of Buildings



Texas Department of State Health Services

Demolition of Buildings



APPENDIX B

dse ACBM Inspection Protocol

dse ACBM INSPECTION PROTOCOL

The protocol used for this inspection was in general accordance with the Asbestos Hazard Emergency Response Act (AHERA) guidelines. The AHERA guidelines define criteria for inspections of asbestos-containing building materials (ACBMs) in school buildings and have been adopted by TDSHS for use in public buildings.

The objective of the asbestos inspection was to identify and assess the condition of accessible suspect ACBMs at the building. Estimates of the quantity of any identified ACBMs were also made. Prior to the inspection, all available asbestos inspection and abatement reports for the facility were reviewed and summarized.

The reasonably accessible areas of the building interior and exterior were visually inspected to identify locations of suspect ACBMs and to define areas of homogeneous materials. Homogeneous materials are defined as being uniform in color and texture. Suspect ACBMs were physically handled to determine friability. Suspect ACBMs were classified as “friable” or “non-friable” according to AHERA guidelines. A “friable” material is any material that when dry, can easily be pulverized, crushed or reduced to powder by hand pressure. A “non-friable” material is any material that when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure. Non-friable materials may become friable if they are damaged, as they age, or during demolition or renovation activities. An evaluation of the condition and an estimate of the quantity of the suspect ACBMs were also made.

Prior to sampling, the suspect ACBMs were sprayed with a surfactant to reduce fiber release. The suspect ACBMs was then touched by the inspector to determine friability. Bulk samples were collected by the inspector, using a decontaminated knife, chisel, hammer or pliers and placed in sealed bags with an assigned field number. Bulk samples were not collected in a random manner in order to reduce damage to the building. Samples were typically collected in inconspicuous locations or adjacent to previously damaged areas. The condition of the suspect ACBMs was also assessed. Photographs of all sample locations were taken and the location of each sample was recorded on a building drawing.

The suspect ACBMs were grouped into specific homogeneous areas using one of the following classifications: surfacing, thermal system insulation (TSI) or miscellaneous. A surfacing material is a friable material sprayed-on, troweled-on or otherwise applied to surfaces (i.e. ceiling textures, fireproofing). TSI consists of materials applied to pipes, fittings, boilers, tanks, ducts or other building components to prevent heat loss or gain. Miscellaneous materials consist of sheet vinyl flooring, vinyl floor tile, mastic, ceiling tiles, drywall, tape & bed, etc. An inspector may, at his or her discretion, assume that a material is an ACBM without collecting or analyzing a bulk sample. In order to define a material as a non-ACBM, a minimum number of samples must be collected and analyzed dependent upon the type and quantity of the homogeneous material. The following general protocol was used:

Friable Surfacing Material

At least three (3) bulk samples shall be collected from each homogeneous area of friable surfacing material that is 1,000 ft² or less. At least five (5) bulk samples shall be collected from

each homogeneous area greater than 1,000 ft² but less than or equal to 5,000 ft². At least seven (7) bulk samples shall be collected from each homogeneous area that is greater than 5,000 ft².

Non-Friable Surfacing Material

At least three (3) bulk samples shall be collected from each homogeneous area of non-friable surfacing material.

Thermal System Insulation At least three (3) bulk samples shall be collected from each homogeneous area of thermal system insulation that is not assumed to be ACBM. At least one (1) bulk sample shall be collected from each homogeneous area of patched thermal system insulation if the patched section is less than six (6) linear or square feet. Bulk samples shall be collected from each insulated mechanical system where cement or plaster is used on fittings such as tees, elbows, or valves in a manner sufficient, in the inspector's opinion, to determine whether the material is ACBM or not ACBM. No samples shall be collected from any homogeneous area where the inspector determines that the thermal system insulation is fiberglass, foam glass, rubber, or other non-ACBM.

Miscellaneous Materials At least three (3) bulk samples shall be collected from each interior homogeneous area. Sampling of exterior homogeneous area is at the discretion of the inspector.

Regulatory agencies (EPA, OSHA and TDSHS) have defined an ACBM as a building material containing greater than one percent (1%) asbestos. Bulk samples must be analyzed by polarized light microscopy (PLM) to determine their asbestos content. Bulk samples collected during this inspection were analyzed by a laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

Once the laboratory analysis of one bulk sample from a homogeneous area detects an asbestos content greater than 1%, the entire homogeneous area is classified as an ACBM. The remaining bulk samples from that homogeneous area do not need to be analyzed. The laboratory will not analyze the remaining bulk samples if it has been given a "positive stop" directive.

Friable samples that are determined to have an asbestos content of less than ten percent (10%) through PLM visual estimation (including those with an asbestos content of less than one percent), may either be assumed as ACBM or verified for asbestos content by point count analysis. A point count analysis is a statistical method for quantifying the percentage of asbestos in a material by PLM. The EPA recommends, but does not require, that flooring materials with no detectable asbestos through PLM analysis be verified through transmission electron microscopy (TEM) analysis.

APPENDIX C

TABLES

Table 1 - Suspect ACBM Bulk Sample Log

Table 2 - Inventory of Homogeneous Areas of Suspect ACBMs

Table 3 - Summary of Identified ACBMs

TABLE 1 – SUSPECT ACBM BULK SAMPLE LOG

Client: U.S. Army Corps of Engineers – Fort Worth
 Project Name: Paducah Palace Theater
 Project Address: 815 North 8th Street
Paducah, Texas 79248

Project Number: 1037508
 Inspector: Paul W. Heidgerd
 TDSHS License No.: 10-5739
 Inspection Dates: April 9 & 10, 2012

Sample No.	Photo No.	Description	Location	Type	Friability	Comments
01		Red Brick and Mortar	Entrance Area Low Wall & Evaporative Chiller Support Walls	M	NF	Significantly Damaged
02		Red Brick and Mortar	Entrance Area Low Wall & Evaporative Chiller Support Walls	M	NF	Significantly Damaged
03		Red Brick and Mortar	Entrance Area Low Wall & Evaporative Chiller Support Walls	M	NF	Significantly Damaged
04		Two Part Plaster System	Front Façade Exterior	S	NF	Significantly Damaged
05		Two Part Plaster System	Front Façade Exterior	S	NF	Significantly Damaged
06		Two Part Plaster System	Front Façade Exterior	S	NF	Significantly Damaged
07		Tan Bricks and Mortars	Front Façade and Exterior Walls	M	NF	Significantly Damaged
08		Tan Bricks and Mortars	Front Façade and Exterior Walls	M	NF	Significantly Damaged
09		Tan Bricks and Mortars	Front Façade and Exterior Walls	M	NF	Significantly Damaged
10		Roofing Tar / Silver Roof Sealant / Tan Caulk	Front Façade Marquee Outline and Store Fronts	M	NF	Significantly Damaged
11	2	Roofing Tar / Silver Roof Sealant / Tan Caulk	Front Façade Marquee Outline and Store Fronts	M	NF	Significantly Damaged
12		Roofing Tar / Silver Roof Sealant / Tan Caulk	Front Façade Marquee Outline and Store Fronts	M	NF	Significantly Damaged
13		Roof System Core	Roof	M	NF	Significantly Damaged
14		Roof System Core	Roof	M	NF	Significantly Damaged
15		Roof System Core	Roof	M	NF	Significantly Damaged
16	3	1' x 1' Pin Hole Acoustic Wall Tile / Mastics	Side Walls of Seating Area	M	F / NF	Significantly Damaged
17		1' x 1' Pin Hole Acoustic Wall Tile / Mastics	Side Walls of Seating Area	M	F / NF	Significantly Damaged
18		1' x 1' Pin Hole Acoustic Wall Tile / Mastics	Side Walls of Seating Area	M	F / NF	Significantly Damaged

TABLE 1 – SUSPECT ACBM BULK SAMPLE LOG

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 Project Name: Paducah Palace Theater
 Project Address: 815 North 8th Street
Paducah, Texas 79248

Project Number: 1037508
 Inspector: Paul W. Heidgerd
 TDSHS License No.: 10-5739
 Inspection Dates: April 9 & 10, 2012

Sample No.	Photo No.	Description	Location	Type	Friability	Comments
19		Textured White 4' x 1.5' Acoustic Ceiling Tile	Ceiling of Seating Area (Nailed, No Mastic)	M	F	Significantly Damaged
20		Textured White 4' x 1.5' Acoustic Ceiling Tile	Ceiling of Seating Area (Nailed, No Mastic)	M	F	Significantly Damaged
21		Textured White 4' x 1.5' Acoustic Ceiling Tile	Ceiling of Seating Area (Nailed, No Mastic)	M	F	Significantly Damaged
22		Smooth White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Concession Area	M	F	Significantly Damaged
23		Smooth White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Concession Area	M	F	Significantly Damaged
24		Smooth White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Concession Area	M	F	Significantly Damaged
25		Two Part Plaster on Fiberboard Ceiling and Wall System	Interior Walls and Ceilings of Concession Area and Barber Shop	S / M	F / NF	Significantly Damaged
26		Two Part Plaster on Fiberboard Ceiling and Wall System	Interior Walls and Ceilings of Concession Area and Barber Shop	S / M	F / NF	Significantly Damaged
27		Two Part Plaster on Fiberboard Ceiling and Wall System	Interior Walls and Ceilings of Concession Area and Barber Shop	S / M	F / NF	Significantly Damaged
28		Fissured White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Barber Shop	M	F	Significantly Damaged
29		Fissured White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Barber Shop	M	F	Significantly Damaged
30		Fissured White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Barber Shop	M	F	Significantly Damaged
31		Popcorn Texture	Upper Walls and Ceiling of Entrance Area	S	F	Significantly Damaged
32	4	Popcorn Texture	Upper Walls and Ceiling of Entrance Area	S	F	Significantly Damaged
33		Popcorn Texture	Upper Walls and Ceiling of Entrance Area	S	F	Significantly Damaged
34	5	Drywall / Joint Compound / Popcorn Texture	Walls and Ceiling of Lobby	M / S	NF / F	Significantly Damaged
35		Drywall / Joint Compound / Popcorn Texture	Walls and Ceiling of Lobby	M / S	NF / F	Significantly Damaged
36		Drywall / Joint Compound / Popcorn Texture	Walls and Ceiling of Lobby	M / S	NF / F	Significantly Damaged
37		Popcorn Texture w/ Vermiculite	Ceiling of Ticket Booth	S	F	Significantly Damaged
38		Popcorn Texture w/ Vermiculite	Ceiling of Ticket Booth	S	F	Significantly Damaged

TABLE 1 – SUSPECT ACBM BULK SAMPLE LOG

Client: U.S. Army Corps of Engineers – Fort Worth
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Project Number: 1037508
 Inspector: Paul W. Heidgerd
 TDSHS License No.: 10-5739
 Inspection Dates: April 9 & 10, 2012

Sample No.	Photo No.	Description	Location	Type	Friability	Comments
39	6	Popcorn Texture w/ Vermiculite	Ceiling of Ticket Booth	S	F	Significantly Damaged
40		Wood Wall Panel Mastics	Walls of Entrance, Concession, Office, Barber Shop and Lobby Areas	M	NF	Significantly Damaged
41		Wood Wall Panel Mastics	Walls of Entrance, Concession, Office, Barber Shop and Lobby Areas	M	NF	Significantly Damaged
42		Wood Wall Panel Mastics	Walls of Entrance, Concession, Office, Barber Shop and Lobby Areas	M	NF	Significantly Damaged
43	7	12" x 12" Cream w/ Marble Chips VCT and Mastic	Concession Area Floor	M	NF	Significantly Damaged
44		12" x 12" Cream w/ Marble Chips VCT and Mastic	Concession Area Floor	M	NF	Significantly Damaged
45		12" x 12" Cream w/ Marble Chips VCT and Mastic	Concession Area Floor	M	NF	Significantly Damaged
46	8	12" x 12" Tan w/ Gray and Brown VCT and Mastic	Office Floor	M	NF	Significantly Damaged
47	8	12" x 12" Tan w/ Gray and Brown VCT and Mastic	Office Floor	M	NF	Significantly Damaged
48	8	12" x 12" Tan w/ Gray and Brown VCT and Mastic	Office Floor	M	NF	Significantly Damaged
49	9	12" x 12" Olive VCT and Mastic	Lobby Floor	M	NF	Significantly Damaged
50		12" x 12" Olive VCT and Mastic	Lobby Floor	M	NF	Significantly Damaged
51		12" x 12" Olive VCT and Mastic	Lobby Floor	M	NF	Significantly Damaged
52	10	9" x 9" Tan VCT and Mastic	Barber Shop Floor Bottom Layer	M	NF	Significantly Damaged
53		9" x 9" Tan VCT and Mastic	Barber Shop Floor Bottom Layer	M	NF	Significantly Damaged
54		9" x 9" Tan VCT and Mastic	Barber Shop Floor Bottom Layer	M	NF	Significantly Damaged
55	11	12" x 12" White Marble-Look VCT and Mastic	Barber Shop Floor Top Layer	M	NF	Significantly Damaged
56		12" x 12" White Marble-Look VCT and Mastic	Barber Shop Floor Top Layer	M	NF	Significantly Damaged

TABLE 1 – SUSPECT ACBM BULK SAMPLE LOG

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Project Number: 1037508
 Inspector: Paul W. Heidgerd
 TDSHS License No.: 10-5739
 Inspection Dates: April 9 & 10, 2012

Sample No.	Photo No.	Description	Location	Type	Friability	Comments
57		12" x 12" White Marble-Look VCT and Mastic	Barber Shop Floor Top Layer	M	NF	Significantly Damaged
58		Two Part Plaster System	All Exterior Walls and Ceilings of Entrance, Balcony & Stage Areas	S	NF	Significantly Damaged
59		Two Part Plaster System	All Exterior Walls and Ceilings of Entrance, Balcony & Stage Areas	S	NF	Significantly Damaged
60		Two Part Plaster System	All Exterior Walls and Ceilings of Entrance, Balcony & Stage Areas	S	NF	Significantly Damaged
61		Green Ceramic Wall Tile / Mastic / Grout	Men's Restroom Walls	M	NF	Significantly Damaged
62		Green Ceramic Wall Tile / Mastic / Grout	Men's Restroom Walls	M	NF	Significantly Damaged
63		Green Ceramic Wall Tile / Mastic / Grout	Men's Restroom Walls	M	NF	Significantly Damaged
64		Smooth White Ceramic Floor Tile / Mastic / Grout	Men's Restroom Floor	M	NF	Significantly Damaged
65		Smooth White Ceramic Floor Tile / Mastic / Grout	Men's Restroom Floor	M	NF	Significantly Damaged
66		Smooth White Ceramic Floor Tile / Mastic / Grout	Men's Restroom Floor	M	NF	Significantly Damaged
67		Textured White Ceramic Floor Tile / Mastic / Grout	Women's Restroom Floor Top layer	M	NF	Significantly Damaged
68		Textured White Ceramic Floor Tile / Mastic / Grout	Women's Restroom Floor Top Layer	M	NF	Significantly Damaged
69		Textured White Ceramic Floor Tile / Mastic / Grout	Women's Restroom Floor Top Layer	M	NF	Significantly Damaged
70		Red Quarry Tile Thinset and Grout	Entrance Area Floor	M	NF	Significantly Damaged
71		Red Quarry Tile Thinset and Grout	Entrance Area Floor	M	NF	Significantly Damaged
72		Red Quarry Tile Thinset and Grout	Entrance Area Floor	M	NF	Significantly Damaged
73		12" x 12" Brown VCT and Mastic	Ticket Booth Floor	M	NF	Significantly Damaged
74		12" x 12" Brown VCT and Mastic	Ticket Booth Floor	M	NF	Significantly Damaged
75	12	12" x 12" Brown VCT and Mastic	Ticket Booth Floor	M	NF	Significantly Damaged
76		Brown Sheet Vinyl Flooring	Projection Room Floor	M	NF	Significantly Damaged

TABLE 1 – SUSPECT ACBM BULK SAMPLE LOG

Client: U.S. Army Corps of Engineers – Fort Worth
 Project Name: Paducah Palace Theater
 Project Address: 815 North 8th Street
Paducah, Texas 79248

Project Number: 1037508
 Inspector: Paul W. Heidgerd
 TDSHS License No.: 10-5739
 Inspection Dates: April 9 & 10, 2012

Sample No.	Photo No.	Description	Location	Type	Friability	Comments
77		Brown Sheet Vinyl Flooring	Projection Room Floor	M	NF	Significantly Damaged
78		Brown Sheet Vinyl Flooring	Projection Room Floor	M	NF	Significantly Damaged
79		Black Tar Impregnated Fiberboard	Walls of Stage in front of Screen	M	F	Significantly Damaged
80		Black Tar Impregnated Fiberboard	Walls of Stage in front of Screen	M	F	Significantly Damaged
81		Black Tar Impregnated Fiberboard	Walls of Stage in front of Screen	M	F	Significantly Damaged
DUP-01		Blind Duplicate 1				
DUP-02		Blind Duplicate 2				
DUP-03		Blind Duplicate 3				
DUP-04		Blind Duplicate 4				Point Count

Notes:**LEGEND**TYPE

S - Surfacing

T - Thermal System Insulation

M - Miscellaneous

FRIABILITY

NF - Non- Friable

F - Non Friable

ACT - Acoustical Ceiling Tile

VCT - Vinyl Composite Tile Flooring

TABLE 2 - INVENTORY OF HOMOGENEOUS AREAS OF SUSPECT ACBMs

Client: U.S. Army Corps of Engineers – Fort Worth
 Project Name: Paducah Palace Theater
 Project Address: 815 North 8th Street
Paducah, Texas 79248

Project Number: 1037508
 Inspector: Paul W. Heidgerd
 TDSHS License No.: 10-5739
 Inspection Dates: April 9 & 10, 2012

Type	Homogeneous Materials Description	Location	Number of Samples	Estimated Quantity of ACBMs	Sample Results/Comments
M	Red Brick and Mortar	Entrance Area Low Wall & Evaporative Chiller Support Walls	3	Non-ACBM	None Detected
Notes: Sample IDs 01, 02 and 03					
S	Two Part Plaster System	Front Façade Exterior	3	Non-ACBM	None Detected
Notes: Sample IDs 04, 05 and 06					
M	Tan Bricks and Mortars	Front Façade and Exterior Walls	3	Non-ACBM	None Detected
Notes: Sample IDs 07, 08 and 09					
M	Roofing Tar / Silver Roof Sealant / Tan Caulk	Front Façade Marquee Outline and Store Fronts	3	50 ft ²	Silver Paint - 5% Chrys Roofing Mastic - 5% Chrys Caulking - 3% Chrys.
Notes: Sample IDs 10, 11 and 12 NESHAP Category I Non-Friable					
M	Roof System Core	Roof	3	Non-ACBM	None Detected
Notes: Sample IDs 13, 14 and 15					
M	1' x 1' Pin Hole Acoustic Wall Tile / Mastics	Side Walls of Seating Area	3	720 ft ²	Acoustic Wall Tile - ND Mastic - 2% Chrys.
Notes: Sample IDs 16, 17 and 18 NESHAP Category II Non-Friable					
M	Textured White 4' x 1.5' Acoustic Ceiling Tile	Ceiling of Seating Area (Nailed, No Mastic)	3	Non-ACBM	None Detected
Notes: Sample IDs 19, 20 and 21					
M	Smooth White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Concession Area	3	Non-ACBM	None Detected
Notes: Sample IDs 22, 23 and 24					
M / S	Two Part Plaster on Fiberboard Ceiling and Wall System	Interior Walls and Ceilings of Concession Area and Barber Shop	3	Non-ACBM	None Detected
Notes: Sample IDs 25, 26 and 27					

TABLE 2 - INVENTORY OF HOMOGENEOUS AREAS OF SUSPECT ACBMs

Client: U.S. Army Corps of Engineers – Fort Worth
 Project Name: Paducah Palace Theater
 Project Address: 815 North 8th Street
Paducah, Texas 79248

Project Number: 1037508
 Inspector: Paul W. Heidgerd
 TDSHS License No.: 10-5739
 Inspection Dates: April 9 & 10, 2012

Type	Homogeneous Materials Description	Location	Number of Samples	Estimated Quantity of ACBMs	Sample Results/Comments
M	Fissured White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Barber Shop	3	Non-ACBM	None Detected
Notes: Sample IDs 28, 29 and 30					
S	Popcorn Texture	Upper Walls and Ceiling of Entrance Area	3	254 ft ²	4.00% Chrys.
Notes: Sample IDs 31, 32 and 33 NESHAP Friable - RACM					
M / S	Drywall / Joint Compound / Popcorn Texture	Walls and Ceiling of Lobby	3	300 ft ²	Drywall - None Detected Texture - 2.75% Chrys. Joint Cmp. - 1.50% Chrys.
Notes: Sample IDs 34, 35 and 36 NESHAP Friable – RACM					
S	Popcorn Texture w/ Vermiculite	Ceiling of Ticket Booth	3	16 ft ²	2.25% Chrys.
Notes: Sample IDs 37, 38 and 39 NESHAP Friable – RACM					
M	Wood Wall Panel Mastics	Walls of Entrance, Concession, Office, Barber Shop and Lobby Areas	3	Non-ACBM	None Detected
Notes: Sample IDs 40, 41 and 42					
M	12" x 12" Cream w/ Marble Chips VCT and Mastic	Concession Area Floor	3	158 ft ²	VCT - 5% Chrys Mastic - 5% Chrys.
Notes: Sample IDs 43, 44 and 45 NESHAP Category I Non-Friable					
M	12" x 12" Tan w/ Gray and Brown VCT and Mastic	Office Floor	3	72 ft ²	VCT - 3% Chrys Mastic - 5% Chrys.
Notes: Sample IDs 46, 47 and 48 NESHAP Category I Non-Friable					
M	12" x 12" Olive VCT and Mastic	Lobby Floor	3	300 ft ²	VCT - 3% Chrys Mastic - 5% Chrys.
Notes: Sample IDs 49, 50 and 51 NESHAP Category I Non-Friable					
M	9" x 9" Tan VCT and Mastic	Barber Shop Floor Bottom Layer	3	234 ft ²	VCT - 10% Chrys Mastic - 5% Chrys.
Notes: Sample IDs 52, 53 and 54 NESHAP Category I Non-Friable					

TABLE 2 - INVENTORY OF HOMOGENEOUS AREAS OF SUSPECT ACBMs

Client: U.S. Army Corps of Engineers – Fort Worth
 Project Name: Paducah Palace Theater
 Project Address: 815 North 8th Street
Paducah, Texas 79248

Project Number: 1037508
 Inspector: Paul W. Heidgerd
 TDSHS License No.: 10-5739
 Inspection Dates: April 9 & 10, 2012

Type	Homogeneous Materials Description	Location	Number of Samples	Estimated Quantity of ACBMs	Sample Results/Comments
M	12" x 12" White Marble-Look VCT and Mastic	Barber Shop Floor Top Layer	3	224 ft ²	VCT - 3% Chrys Mastic - 5% Chrys.
Notes: Sample IDs 55, 56 and 57 NESHAP Category I Non-Friable					
S	Two Part Plaster System	All Exterior Walls and Ceilings of Entrance, Balcony & Stage Areas	3	Non-ACBM	None Detected
Notes: Sample IDs 58, 59 and 60					
M	Green Ceramic Wall Tile / Mastic / Grout	Men's Restroom Walls	3	Non-ACBM	None Detected
Notes: Sample IDs 61, 62 and 63					
M	Smooth White Ceramic Floor Tile / Mastic / Grout	Men's Restroom Floor	3	Non-ACBM	None Detected
Notes: Sample IDs 64, 65 and 66					
M	Textured White Ceramic Floor Tile / Mastic / Grout	Women's Restroom Floor Top layer	3	Non-ACBM	None Detected
Notes: Sample IDs 67, 68 and 69					
M	Red Quarry Tile Thinset and Grout	Entrance Area Floor	3	Non-ACBM	None Detected
Notes: Sample IDs 70, 71 and 72					
M	12" x 12" Brown VCT and Mastic	Ticket Booth Floor	3	16 ft ²	VCT - 3% Chrys Mastic - 5% Chrys.
Notes: Sample IDs 73, 74 and 75 NESHAP Category I Non-Friable					
M	Brown Sheet Vinyl Flooring	Projection Room Floor	3	Non-ACBM	None Detected
Notes: Sample IDs 76, 77 and 78					
M	Black Tar Impregnated Fiberboard	Walls of Stage in front of Screen	3	Non-ACBM	None Detected
Notes: Sample IDs 79, 80 and 81					
LEGEND					
TYPE: S = Surfacing, T = Thermal System Insulation, M = Miscellaneous Chrys. = Chrysotile Asbestos					

TABLE 3 – SUMMARY OF IDENTIFIED ACBMS

Client: <u>U.S. Army Corps of Engineers – Fort Worth</u>	Project Number: <u>1037508</u>
Project Name: <u>Paducah Palace Theater</u>	Inspector: <u>Paul W. Heidgerd</u>
Project Address: <u>815 North 8th Street</u>	TDSHS License No.: <u>10-5739</u>
<u>Paducah, Texas 79248</u>	Inspection Dates: <u>April 9 & 10, 2012</u>

Type	Homogeneous Materials Description	Location	Estimated Amount of ACBMs	Sample Results/Comments
M	Roofing Tar / Silver Roof Sealant / Tan Caulk	Front Façade Marquee Outline and Store Fronts	50 ft ²	Silver Paint - 5% Chrys Roofing Mastic - 5% Chrys Caulking - 3% Chrys.
Notes: Sample IDs 10, 11 and 12 NESHAP Category I Non-Friable				
M	1' x 1' Pin Hole Acoustic Wall Tile / Mastics	Side Walls of Seating Area	720 ft ²	Acoustic Tile - None Detected Mastic - 2% Chrys.
Notes: Sample IDs 16, 17 and 18 NESHAP Category II Non-Friable				
S	Popcorn Texture	Upper Walls and Ceiling of Entrance Area	254 ft ²	4.00% Chrys.
Notes: Sample IDs 31, 32 and 33 NESHAP Friable - RACM				
M / S	Drywall / Joint Compound / Popcorn Texture	Walls and Ceiling of Lobby	300 ft ²	Drywall - None Detected Texture - 2.75% Chrys. Joint Cmp. - 1.50% Chrys.
Notes: Sample IDs 34, 35 and 36 NESHAP Friable – RACM				
S	Popcorn Texture w/ Vermiculite	Ceiling of Ticket Booth	16 ft ²	2.25% Chrys.
Notes: Sample IDs 37, 38 and 39 NESHAP Friable – RACM				
M	12" x 12" Cream w/ Marble Chips VCT and Mastic	Concession Area Floor	158 ft ²	VCT - 5% Chrys Mastic - 5% Chrys.
Notes: Sample IDs 43, 44 and 45 NESHAP Category I Non-Friable				
M	12" x 12" Tan w/ Gray and Brown VCT and Mastic	Office Floor	72 ft ²	VCT - 3% Chrys Mastic - 5% Chrys.
Notes: Sample IDs 46, 47 and 48 NESHAP Category I Non-Friable				
LEGEND				
TYPE: S = Surfacing, T = Thermal System Insulation, M = Miscellaneous Chrys. = Chrysotile Asbestos				

TABLE 3 – SUMMARY OF IDENTIFIED ACBMS

<div> <div> Client: <u>U.S. Army Corps of Engineers – Fort Worth</u> Project Name: <u>Paducah Palace Theater</u> Project Address: <u>815 North 8th Street</u> <u>Paducah, Texas 79248</u> </div> <div> Project Number: <u>1037508</u> Inspector: <u>Paul W. Heidgerd</u> TDSHS License No.: <u>10-5739</u> Inspection Dates: <u>April 9 & 10, 2012</u> </div> </div>				
Type	Homogeneous Materials Description	Location	Estimated Quantity	Sample Results/Comments
M	12" x 12" Olive VCT and Mastic	Lobby Floor	300 ft ²	VCT - 3% Chrys Mastic - 5% Chrys.
Notes: Sample IDs 49, 50 and 51 NESHAP Category I Non-Friable				
M	9" x 9" Tan VCT and Mastic	Barber Shop Floor Bottom Layer	234 ft ²	VCT - 10% Chrys Mastic - 5% Chrys.
Notes: Sample IDs 52, 53 and 54 NESHAP Category I Non-Friable				
M	12" x 12" White Marble-Look VCT and Mastic	Barber Shop Floor Top Layer	224 ft ²	VCT - 3% Chrys Mastic - 5% Chrys.
Notes: Sample IDs 55, 56 and 57 NESHAP Category I Non-Friable				
M	12" x 12" Brown VCT and Mastic	Ticket Booth Floor	16 ft ²	VCT - 3% Chrys Mastic - 5% Chrys.
Notes: Sample IDs 73, 74 and 75 NESHAP Category I Non-Friable				
LEGEND TYPE: S = Surfacing, T = Thermal System Insulation, M = Miscellaneous Chrys. = Chrysotile Asbestos				

APPENDIX D

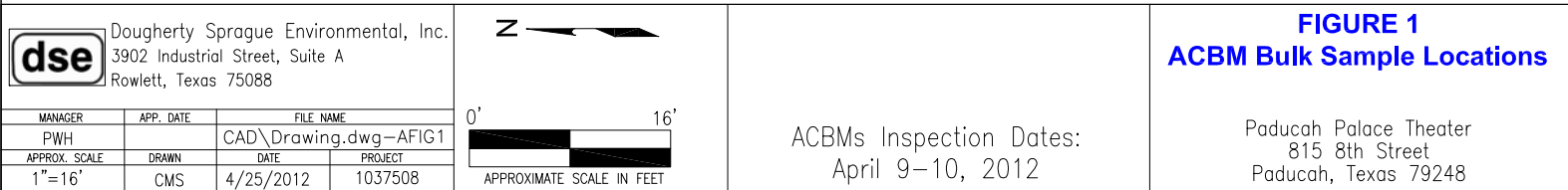
FIGURES

Figure 1 – Bulk Sample Locations

Figure 1A – Figure 1 Legend

Figure 2 – Identified Surfacing and Miscellaneous ACBM Areas

Figure 3 – Identified ACBM Flooring Areas



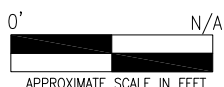
LEGEND

- 1, 2, 3** Red Brick/Mortar
- 4, 5, 6** Two Part Plaster System
- 7, 8, 9** Tan Brick/Mortars
- 10, 11, 12** Roofing Tar (5% Chrys.)/Silver Roof Sealant (5% Chrys.)/Tan Caulk (3% Chrys.)
- 13, 14, 15** Roof System Core
- 16, 17, 18** 1'x1' Pin Hole Acoustical Wall Tile/Brown Mastic (2% Chrys.)
- 19, 20, 21** Textured White 4'x1.5' Acoustical Ceiling Tile
- 22, 23, 24** Smooth White 2'x4' Suspended Acoustical Ceiling Tile
- 25, 26, 27** Two-Part Plaster on Fiberboard Ceiling and Wall System
- 28, 29, 30** Fissured White 2'x4' Suspended Acoustical Ceiling Tile
- 31, 32, 33** Popcorn Texture (3% Chrys.)
- 34, 35, 36** Drywall/Joint Compound (3% Chrys.)/Popcorn Texture (3% Chrys.)
- 37, 38, 39** Popcorn Texture (3% Chrys.) with Vermiculite
- 40, 41, 42** Wood Wall Mastics
- 43, 44, 45** 12"x12" Cream with Marble Chips VCT (5% Chrys.)/Black Mastic (5% Chrys.)
- 46, 47, 48** 12"x12" Tan with Gray and Brown VCT (3% Chrys.)/Black Mastic (5% Chrys.)
- 49, 50, 51** 12"x12" Olive VCT (3% Chrys.)/Black Mastic (5% Chrys.)
- 52, 53, 54** 9"x9" Tan VCT (10% Chrys.)/Black Mastic (5% Chrys.)
- 55, 56, 57** 12"x12" White Marble-Look VCT (3% Chrys.)/Black Mastic (5% Chrys.)
- 58, 59, 60** Two Part Plaster System
- 61, 62, 63** Green Ceramic Wall Tile/Mastic/Grout
- 64, 65, 66** Smooth White Ceramic Floor Tile/Mastic/Grout
- 67, 68, 69** Textured White Ceramic Floor Tile/Mastic/Grout
- 70, 71, 72** Red Quarry Tile Thinset and Grout
- 73, 74, 75** 12"x12" Brown VCT (3% Chrys.)/Black Mastic (5% Chrys.)
- 76, 77, 78** Brown Sheet Vinyl Flooring
- 79, 80, 81** Black Tar Impregnated Fiberboard

NA Not Analyzed due to Positive Stop



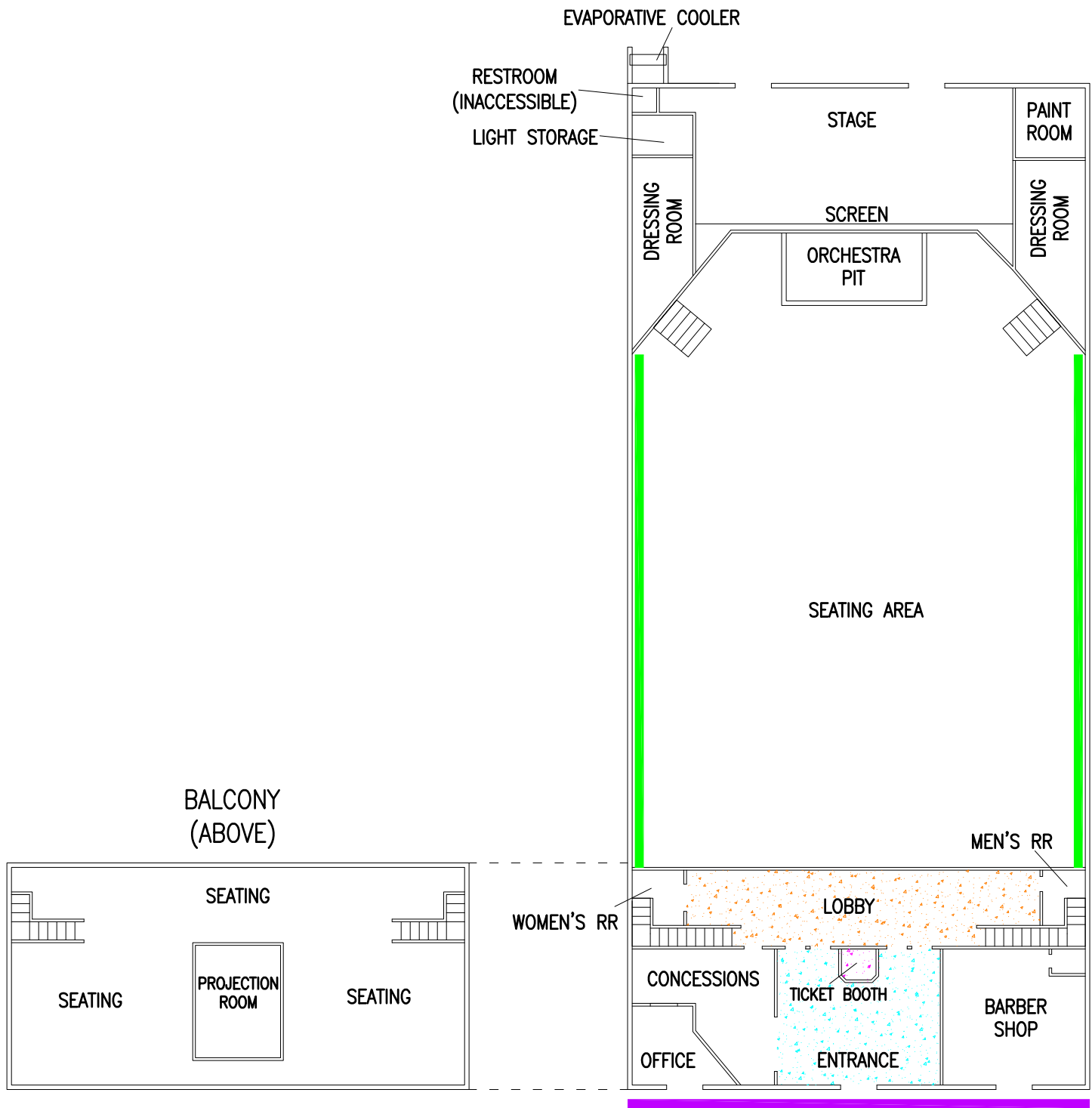
Dougherty Sprague Environmental, Inc.
3902 Industrial Street, Suite A
Rowlett, Texas 75088






MANAGER	APP. DATE	FILE NAME	
PWH		CAD\Drawing.dwg-AFIG1A	
APPROX. SCALE	DRAWN	DATE	PROJECT
N/A	CMS	4/25/2012	1037508

FIGURE 1A
ACBM Inspection Legend

Paducah Palace Theater
815 8th Street
Paducah, Texas 79248

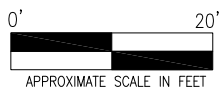


ACBM's

-  "Popcorn" Ceiling Texture (3% Chrys.)
-  "Popcorn" Ceiling Texture (3% Chrys.)
-  "Popcorn" Ceiling Texture (3% Chrys.)/Joint Compound (3% Chrys.)
-  Brown Mastic (2% Chrys.) on 1'x1' Acoustical Wall Tiles
-  Silver Paint (5% Chrys.)/Roofing Mastic (5% Chrys.)/Tan Caulking Compound (3% Chrys.)



Dougherty Sprague Environmental, Inc.
3902 Industrial Street, Suite A
Rowlett, Texas 75088

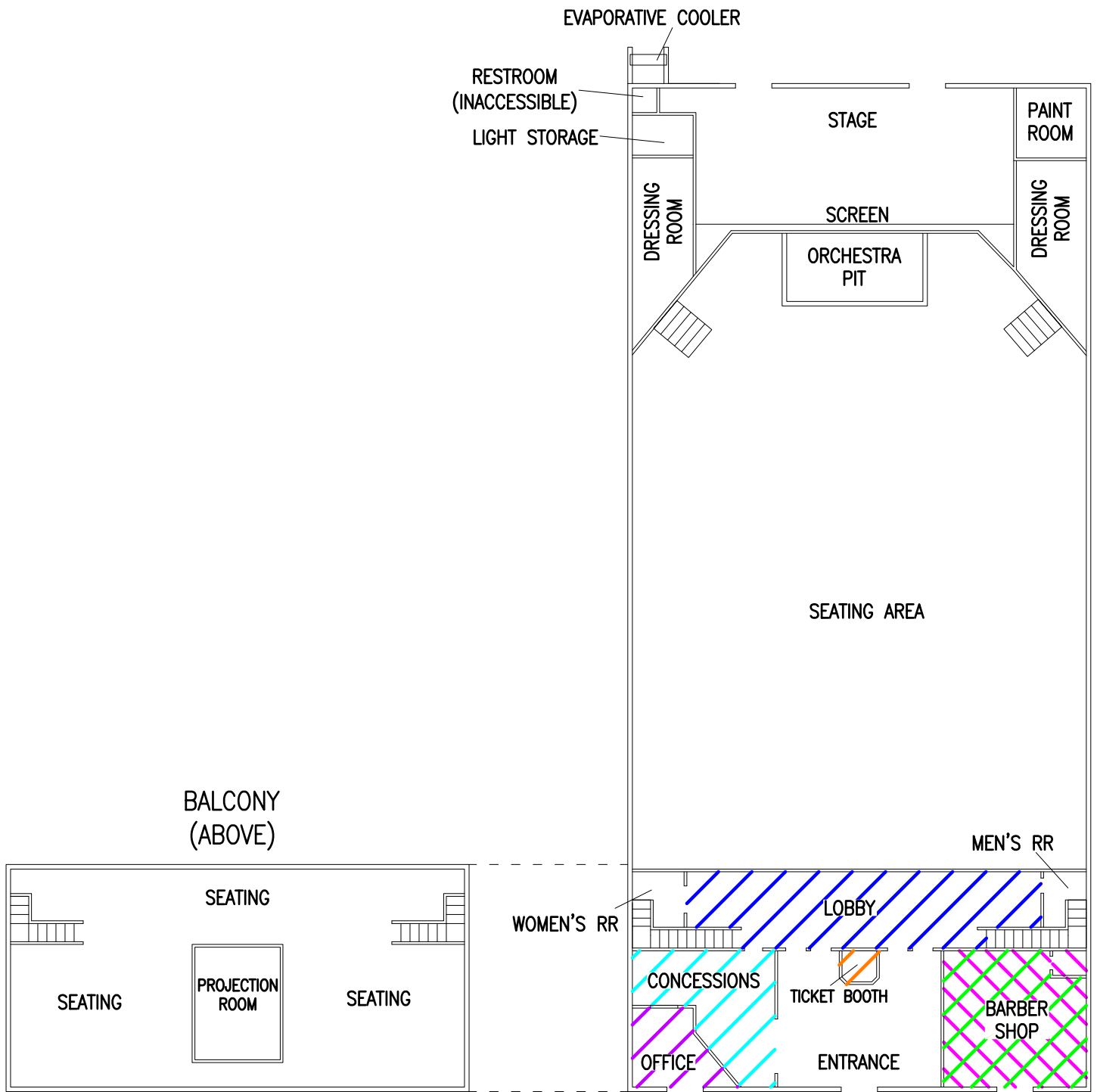


MANAGER	APP. DATE	FILE NAME	
PWH		CAD\Drawing.dwg-AFIG2	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=20'	CMS	4/25/2012	1037508



ACBMs Inspection Dates:
April 9-10, 2012

FIGURE 2
Identified Surfacing and
Miscellaneous ACBM Areas

Paducah Palace Theater
815 8th Street
Paducah, Texas 79248



ACBMs (VCT/Mastic)

-  12"x12" Olive VCT (3% Chrys.)/Black Mastic (5% Chrys.)
-  12"x12" White "Marble" VCT (3% Chrys.)/Black Mastic (5% Chrys.)
-  12"x12" Cream with "Marble" Chips VCT (5% Chrys.)/Black Mastic (5% Chrys.)
-  9"x9" Tan VCT (10% Chrys.)/Black Mastic (5% Chrys.)
-  12"x12" Tan with Gray and Brown VCT (3% Chrys.)/Black Mastic (5% Chrys.)
-  12"x12" Brown VCT (3% Chrys.)/Black Mastic (5% Chrys.)

dse Dougherty Sprague Environmental, Inc.
3902 Industrial Street, Suite A
Rowlett, Texas 75088



0' 20'

APPROXIMATE SCALE IN FEET

ACBMs Inspection Dates:
April 9–10, 2012

FIGURE 3
Identified ACBM Flooring
Areas

Paducah Palace Theater
815 8th Street
Paducah, Texas 79248

APPENDIX E

Suspect ACBM Bulk Sample Laboratory Analyses Report
Chain of Custody
Laboratory TDSHS License and NVLAP Accreditation

Cates Laboratories

April 20, 2012

Dougherty Sprague Environmental, Inc.
3902 Industrial Street, Suite A
Rowlett, Texas 75088

Attention: Paul Heidgerd, P.G.

Subject: **Paducah Palace Theater, 815 North 8th Street,
Paducah, TX - PLM Analysis
DSE Project No. 137508
CatesLab Project No. PLM-05172**

Dear Mr. Heidgerd:

Enclosed you will find our invoice for the eighty-one (81) bulk samples delivered to us, labeled 01 through 81. The samples were analyzed by polarized light microscopy coupled with dispersion staining as outlined in the "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116). At your request, the samples were analyzed to the first positive in each homogenous area as noted on the chain of custody. A total of fifty-nine (59) samples were analyzed. Detail and summary reports sent via e-mail.

Cates Laboratories, Inc. (CatesLab) has performed the analysis using accepted industry-standard practices. We can take no responsibility for locations sampled or sampling techniques.

CatesLab appreciates the opportunity to serve as your testing laboratory. If you have any questions or if we may be of further service to you, please call.

Sincerely,

CATES LABORATORIES, INC.



John R. Cates, P.G.
President
Laboratory Director

Enclosures

PLM REPORT SUMMARY



Cates Laboratories

1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006

NVLAP Lab No. 200569-0
TDH License No. 30-0287

Client: Dougherty Sprague Environmental, Inc.	Lab Job No.: PLM-05172
Project: Paducah Palace Theater, 815 North 8th Street, Paducah, TX	Report Date: 4/23/2012
Project No: 1037508	Sample Date: 4/10/2012
Identification: Asbestos, Bulk Sample Analysis	
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)	
EPA Method 600/R-93/116	Page 1 of 8

On 4/13/2012, eighty-one (81) bulk samples were submitted by Mr. Paul Heidgerd of Dougherty Sprague Environmental, Inc. for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Client Field I.D.	Sample Description/Location	Asbestos Content
CL217486	01	Red Brick & Mortar - Entrance Area Low Wall & Evaporative Chiller Support Walls	None Detected - Brick None Detected - Mortar
CL217487	02	Red Brick & Mortar - Entrance Area Low Wall & Evaporative Chiller Support Walls	None Detected - Brick None Detected - Mortar
CL217488	03	Red Brick & Mortar - Entrance Area Low Wall & Evaporative Chiller Support Walls	None Detected - Brick None Detected - Mortar
CL217489	04	Two-Part Plaster System - Front Façade Exterior	None Detected - Plaster Topcoat None Detected - Plaster
CL217490	05	Two-Part Plaster System - Front Façade Exterior	None Detected - Plaster Topcoat None Detected - Plaster
CL217491	06	Two-Part Plaster System - Front Façade Exterior	None Detected - Plaster Topcoat None Detected - Plaster
CL217492	07	Tan Bricks & Mortars - Front Façade & Exterior Walls	None Detected - Brick None Detected - Mortar
CL217493	08	Tan Bricks & Mortars - Front Façade & Exterior Walls	None Detected - Brick None Detected - Mortar
CL217494	09	Tan Bricks & Mortars - Front Façade & Exterior Walls	None Detected - Brick None Detected - Mortar
CL217495	10	Roofing Tar / Silver Roof Sealant / Tan Caulk - Front Façade Marquee Outline & Store Fronts	5% Chrysotile - Silver Paint 5% Chrysotile - Roofing Mastic 3% Chrysotile - Caulking
CL217496	11	Roofing Tar / Silver Roof Sealant / Tan Caulk - Front Façade Marquee Outline & Store Fronts	Not Analyzed - Positive Stop
CL217497	12	Roofing Tar / Silver Roof Sealant / Tan Caulk - Front Façade Marquee Outline & Store Fronts	Not Analyzed - Positive Stop
CL217498	13	Roof System Core - Roof	None Detected
CL217499	14	Roof System Core - Roof	None Detected

These samples were analyzed by layers. The overall percent asbestos for the sample is reported when relevant. The EPA considers a material to be asbestos containing only if it contains greater than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) – materials that are friable or may become friable – be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. CatesLab utilizes CVAE on a routine basis and does not include point counting unless specifically requested by the client. The results may not be reproduced except in full.

PLM REPORT SUMMARY



Cates Laboratories

1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006

NVLAP Lab No. 200569-0
TDH License No. 30-0287

Client: Dougherty Sprague Environmental, Inc.
Project: Paducah Palace Theater, 815 North 8th Street, Paducah, TX
Project No: 1037508
Identification: Asbestos, Bulk Sample Analysis
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)
EPA Method 600/R-93/116

Lab Job No.: PLM-05172
Report Date: 4/23/2012
Sample Date: 4/10/2012

Page 2 of 8

On 4/13/2012, eighty-one (81) bulk samples were submitted by Mr. Paul Heidgerd of Dougherty Sprague Environmental, Inc. for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Client Field I.D.	Sample Description/Location	Asbestos Content
CL217500	15	Roof System Core - Roof	None Detected
CL217501	16	1' X 1' Pinhole Acoustic Wall Tile / Mastics - Side Walls of Seating Area	None Detected - Ceiling Tile None Detected - Brown Mastic
CL217502	17	1' X 1' Pinhole Acoustic Wall Tile / Mastics - Side Walls of Seating Area	None Detected - Ceiling Tile 2% Chrysotile - Brown Mastic
CL217503	18	1' X 1' Pinhole Acoustic Wall Tile / Mastics - Side Walls of Seating Area	Not Analyzed - Positive Stop
CL217504	19	Textured White 4' X 1.5' Acoustic Ceiling Tile - Ceiling of Seating Area (nailed, no mastic)	None Detected - Paint Texture None Detected - Ceiling Tile
CL217505	20	Textured White 4' X 1.5' Acoustic Ceiling Tile - Ceiling of Seating Area (nailed, no mastic)	None Detected - Paint Texture None Detected - Ceiling Tile
CL217506	21	Textured White 4' X 1.5' Acoustic Ceiling Tile - Ceiling of Seating Area (nailed, no mastic)	None Detected - Paint Texture None Detected - Ceiling Tile
CL217507	22	Smooth White 2' X 4' Suspended Acoustic Ceiling Tile - Ceiling of Concession Area	None Detected
CL217508	23	Smooth White 2' X 4' Suspended Acoustic Ceiling Tile - Ceiling of Concession Area	None Detected
CL217509	24	Smooth White 2' X 4' Suspended Acoustic Ceiling Tile - Ceiling of Concession Area	None Detected
CL217510	25	Two-Part Plaster on Fiberboard Ceiling & Wall System - Interior Walls & Ceilings of Concession Area & Barber Shop	None Detected - Paint Texture None Detected - Plaster None Detected - Fiberboard
CL217511	26	Two-Part Plaster on Fiberboard Ceiling & Wall System - Interior Walls & Ceilings of Concession Area & Barber Shop	None Detected - Paint Texture None Detected - Plaster None Detected - Fiberboard
CL217512	27	Two-Part Plaster on Fiberboard Ceiling & Wall System - Interior Walls & Ceilings of Concession Area & Barber Shop	None Detected - Paint Texture None Detected - Plaster None Detected - Fiberboard

These samples were analyzed by layers. The overall percent asbestos for the sample is reported when relevant. The EPA considers a material to be asbestos containing only if it contains greater than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) – materials that are friable or may become friable – be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. CatesLab utilizes CVAE on a routine basis and does not include point counting unless specifically requested by the client. The results may not be reproduced except in full.

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1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006

NVLAP Lab No. 200569-0
TDH License No. 30-0287

Client: Dougherty Sprague Environmental, Inc.
Project: Paducah Palace Theater, 815 North 8th Street, Paducah, TX
Project No: 1037508
Identification: Asbestos, Bulk Sample Analysis
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)
EPA Method 600/R-93/116

Lab Job No.: PLM-05172
Report Date: 4/23/2012
Sample Date: 4/10/2012

Page 3 of 8

On 4/13/2012, eighty-one (81) bulk samples were submitted by Mr. Paul Heidgerd of Dougherty Sprague Environmental, Inc. for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Client Field I.D.	Sample Description/Location	Asbestos Content
CL217513	28	Fissured White 2' X 4' Suspended Acoustic Ceiling Tile - Ceiling of Barber Shop	None Detected
CL217514	29	Fissured White 2' X 4' Suspended Acoustic Ceiling Tile - Ceiling of Barber Shop	None Detected
CL217515	30	Fissured White 2' X 4' Suspended Acoustic Ceiling Tile - Ceiling of Barber Shop	None Detected
CL217516	31	Popcorn Texture - Upper Walls & Ceiling of Entrance Area	3% Chrysotile (by PLM) 4.00% Chrysotile - Spray-Applied Tx (by Point Count)
CL217517	32	Popcorn Texture - Upper Walls & Ceiling of Entrance Area	Not Analyzed - Positive Stop
CL217518	33	Popcorn Texture - Upper Walls & Ceiling of Entrance Area	Not Analyzed - Positive Stop
CL217519	34	Drywall/Joint Compound/Popcorn Texture - Walls & Ceiling of Lobby	3% Chrysotile - Spray-Applied Tx None Detected - Joint Tape 3% Chrysotile - Joint Compound None Detected - Paper None Detected - Wallboard Material (by PLM) 2.75% Chrysotile - Spray-Applied Tx 1.50% Chrysotile - Joint Compound (by Point Count)
CL217520	35	Drywall/Joint Compound/Popcorn Texture - Walls & Ceiling of Lobby	3% Chrysotile - Spray-Applied Tx None Detected - Joint Tape 3% Chrysotile - Joint Compound None Detected - Paper None Detected - Wallboard Material
CL217521	36	Drywall/Joint Compound/Popcorn Texture - Walls & Ceiling of Lobby	3% Chrysotile - Spray-Applied Tx None Detected - Joint Tape 3% Chrysotile - Joint Compound None Detected - Paper None Detected - Wallboard Material

These samples were analyzed by layers. The overall percent asbestos for the sample is reported when relevant. The EPA considers a material to be asbestos containing only if it contains greater than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) – materials that are friable or may become friable – be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. CatesLab utilizes CVAE on a routine basis and does not include point counting unless specifically requested by the client. The results may not be reproduced except in full.

PLM REPORT SUMMARY



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1720 Regal Row, Suite 210
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NVLAP Lab No. 200569-0
TDH License No. 30-0287

Client: Dougherty Sprague Environmental, Inc.
Project: Paducah Palace Theater, 815 North 8th Street, Paducah, TX
Project No: 1037508
Identification: Asbestos, Bulk Sample Analysis
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)
EPA Method 600/R-93/116

Lab Job No.: PLM-05172
Report Date: 4/23/2012
Sample Date: 4/10/2012

Page 4 of 8

On 4/13/2012, eighty-one (81) bulk samples were submitted by Mr. Paul Heidgerd of Dougherty Sprague Environmental, Inc. for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Client Field I.D.	Sample Description/Location	Asbestos Content
CL217522	37	Popcorn Texture w/Vermiculite - Ceiling of Ticket Booth	3% Chrysotile (by PLM) 2.25% Chrysotile - Spray-Applied Tx
CL217523	38	Popcorn Texture w/Vermiculite - Ceiling of Ticket Booth	Not Analyzed - Positive Stop
CL217524	39	Popcorn Texture w/Vermiculite - Ceiling of Ticket Booth	Not Analyzed - Positive Stop
CL217525	40	Wood Wall Panel Mastics - Walls of Entrance, Concession, Office, Barber Shop & Lobby Areas	None Detected - Yellow Mastic None Detected - Brown Mastic
CL217526	41	Wood Wall Panel Mastics - Walls of Entrance, Concession, Office, Barber Shop & Lobby Areas	None Detected - Yellow Mastic None Detected - Brown Mastic
CL217527	42	Wood Wall Panel Mastics - Walls of Entrance, Concession, Office, Barber Shop & Lobby Areas	None Detected - Yellow Mastic None Detected - Brown Mastic
CL217528	43	12" X 12" Cream w/Marble Chips VCT & Mastic - Concession Area Floor	5% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
CL217529	44	12" X 12" Cream w/Marble Chips VCT & Mastic - Concession Area Floor	Not Analyzed - Positive Stop
CL217530	45	12" X 12" Cream w/Marble Chips VCT & Mastic - Concession Area Floor	Not Analyzed - Positive Stop
CL217531	46	12" X 12" Tan w/Gray & Brown VCT & Mastic - Office Floor	3% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
CL217532	47	12" X 12" Tan w/Gray & Brown VCT & Mastic - Office Floor	Not Analyzed - Positive Stop
CL217533	48	12" X 12" Tan w/Gray & Brown VCT & Mastic - Office Floor	Not Analyzed - Positive Stop
CL217534	49	12" X 12" Olive VCT & Mastic - Lobby Floor	3% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
CL217535	50	12" X 12" Olive VCT & Mastic - Lobby Floor	Not Analyzed - Positive Stop
CL217536	51	12" X 12" Olive VCT & Mastic - Lobby Floor	Not Analyzed - Positive Stop
CL217537	52	9" X 9" Tan VCT & Mastic - Barber Shop Floor, Bottom Layer	10% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic

These samples were analyzed by layers. The overall percent asbestos for the sample is reported when relevant. The EPA considers a material to be asbestos containing only if it contains greater than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) – materials that are friable or may become friable – be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. CatesLab utilizes CVAE on a routine basis and does not include point counting unless specifically requested by the client. The results may not be reproduced except in full.

PLM REPORT SUMMARY



Cates Laboratories

1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006

NVLAP Lab No. 200569-0
TDH License No. 30-0287

Client: Dougherty Sprague Environmental, Inc.
Project: Paducah Palace Theater, 815 North 8th Street, Paducah, TX
Project No: 1037508
Identification: Asbestos, Bulk Sample Analysis
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)
EPA Method 600/R-93/116

Lab Job No.: PLM-05172
Report Date: 4/23/2012
Sample Date: 4/10/2012

Page 5 of 8

On 4/13/2012, eighty-one (81) bulk samples were submitted by Mr. Paul Heidgerd of Dougherty Sprague Environmental, Inc. for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Client Field I.D.	Sample Description/Location	Asbestos Content
CL217538	53	9" X 9" Tan VCT & Mastic - Barber Shop Floor, Bottom Layer	Not Analyzed - Positive Stop
CL217539	54	9" X 9" Tan VCT & Mastic - Barber Shop Floor, Bottom Layer	Not Analyzed - Positive Stop
CL217540	55	12" X 12" White Marble-Look VCT & Mastic - Barber Shop Floor, Top Layer	3% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
CL217541	56	12" X 12" White Marble-Look VCT & Mastic - Barber Shop Floor, Top Layer	Not Analyzed - Positive Stop
CL217542	57	12" X 12" White Marble-Look VCT & Mastic - Barber Shop Floor, Top Layer	Not Analyzed - Positive Stop
CL217543	58	Two-Part Plaster System - All Exterior Walls & Ceilings of Entrance, Balcony & Stage Areas	None Detected - Paint Texture None Detected - Plaster
CL217544	59	Two-Part Plaster System - All Exterior Walls & Ceilings of Entrance, Balcony & Stage Areas	None Detected - Paint Texture None Detected - Plaster
CL217545	60	Two-Part Plaster System - All Exterior Walls & Ceilings of Entrance, Balcony & Stage Areas	None Detected - Paint Texture None Detected - Plaster
CL217546	61	Green Ceramic Wall Tile / Mastic / Grout - Men's Restroom Walls	None Detected - Ceramic Tile None Detected - Grout None Detected - Yellow Mastic
CL217547	62	Green Ceramic Wall Tile / Mastic / Grout - Men's Restroom Walls	None Detected - Ceramic Tile None Detected - Grout None Detected - Yellow Mastic
CL217548	63	Green Ceramic Wall Tile / Mastic / Grout - Men's Restroom Walls	None Detected - Ceramic Tile None Detected - Grout None Detected - Yellow Mastic
CL217549	64	Smooth White Ceramic Floor Tile / Mastic / Grout - Men's Restroom Floor	None Detected - Ceramic Tile None Detected - Grout None Detected - Mastic

These samples were analyzed by layers. The overall percent asbestos for the sample is reported when relevant. The EPA considers a material to be asbestos containing only if it contains greater than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) – materials that are friable or may become friable – be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. CatesLab utilizes CVAE on a routine basis and does not include point counting unless specifically requested by the client. The results may not be reproduced except in full.

PLM REPORT SUMMARY



Cates Laboratories

1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006

NVLAP Lab No. 200569-0
TDH License No. 30-0287

Client: Dougherty Sprague Environmental, Inc.
Project: Paducah Palace Theater, 815 North 8th Street, Paducah, TX
Project No: 1037508
Identification: Asbestos, Bulk Sample Analysis
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)
EPA Method 600/R-93/116

Lab Job No.: PLM-05172
Report Date: 4/23/2012
Sample Date: 4/10/2012

Page 6 of 8

On 4/13/2012, eighty-one (81) bulk samples were submitted by Mr. Paul Heidgerd of Dougherty Sprague Environmental, Inc. for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Client Field I.D.	Sample Description/Location	Asbestos Content
CL217550	65	Smooth White Ceramic Floor Tile / Mastic / Grout - Men's Restroom Floor	None Detected - Ceramic Tile None Detected - Grout None Detected - Mastic
CL217551	66	Smooth White Ceramic Floor Tile / Mastic / Grout - Men's Restroom Floor	None Detected - Ceramic Tile None Detected - Grout None Detected - Mastic
CL217552	67	Textured White Ceramic Floor Tile / Mastic / Grout - Women's Restroom Floor, Top Layer	None Detected - Ceramic Tile None Detected - Grout None Detected - Mastic/Texture
CL217553	68	Textured White Ceramic Floor Tile / Mastic / Grout - Women's Restroom Floor, Top Layer	None Detected - Ceramic Tile None Detected - Grout None Detected - Mastic/Texture
CL217554	69	Textured White Ceramic Floor Tile / Mastic / Grout - Women's Restroom Floor, Top Layer	None Detected - Ceramic Tile None Detected - Grout None Detected - Mastic/Texture
CL217555	70	Red Quarry Tile Thinset & Grout - Entrance Area Floor	None Detected - Stone Tile None Detected - Grout None Detected - Thinset
CL217556	71	Red Quarry Tile Thinset & Grout - Entrance Area Floor	None Detected - Stone Tile None Detected - Grout None Detected - Thinset
CL217557	72	Red Quarry Tile Thinset & Grout - Entrance Area Floor	None Detected - Stone Tile None Detected - Grout None Detected - Thinset
CL217558	73	12" X 12" Brown VCT & Mastic - Ticket Booth Floor	3% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
CL217559	74	12" X 12" Brown VCT & Mastic - Ticket Booth Floor	Not Analyzed - Positive Stop
CL217560	75	12" X 12" Brown VCT & Mastic - Ticket Booth Floor	Not Analyzed - Positive Stop

These samples were analyzed by layers. The overall percent asbestos for the sample is reported when relevant. The EPA considers a material to be asbestos containing only if it contains greater than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) – materials that are friable or may become friable – be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. CatesLab utilizes CVAE on a routine basis and does not include point counting unless specifically requested by the client. The results may not be reproduced except in full.

PLM REPORT SUMMARY



Cates Laboratories

1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006

NVLAP Lab No. 200569-0
TDH License No. 30-0287

Client: Dougherty Sprague Environmental, Inc.
Project: Paducah Palace Theater, 815 North 8th Street, Paducah, TX
Project No: 1037508
Identification: Asbestos, Bulk Sample Analysis
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)
EPA Method 600/R-93/116

Lab Job No.: PLM-05172
Report Date: 4/23/2012
Sample Date: 4/10/2012

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On 4/13/2012, eighty-one (81) bulk samples were submitted by Mr. Paul Heidgerd of Dougherty Sprague Environmental, Inc. for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Client Field I.D.	Sample Description/Location	Asbestos Content
CL217561	76	Brown Sheet Vinyl Flooring - Projection Room Floor	None Detected - Sheet Flooring None Detected - Fibrous Backing
CL217562	77	Brown Sheet Vinyl Flooring - Projection Room Floor	None Detected - Sheet Flooring None Detected - Fibrous Backing
CL217563	78	Brown Sheet Vinyl Flooring - Projection Room Floor	None Detected - Sheet Flooring None Detected - Fibrous Backing
CL217564	79	Black Tar Impregnated Fiberboard - Walls of Stage in Front of Screen	None Detected
CL217565	80	Black Tar Impregnated Fiberboard - Walls of Stage in Front of Screen	None Detected
CL217566	81	Black Tar Impregnated Fiberboard - Walls of Stage in Front of Screen	None Detected

These samples were analyzed by layers. The overall percent asbestos for the sample is reported when relevant. The EPA considers a material to be asbestos containing only if it contains greater than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) – materials that are friable or may become friable – be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. CatesLab utilizes CVAE on a routine basis and does not include point counting unless specifically requested by the client. The results may not be reproduced except in full.

PLM REPORT SUMMARY



Cates Laboratories

1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006

NVLAP Lab No. 200569-0
TDH License No. 30-0287

Client: Dougherty Sprague Environmental, Inc.
Project: Paducah Palace Theater, 815 North 8th Street, Paducah, TX
Project No: 1037508
Identification: Asbestos, Bulk Sample Analysis
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)
EPA Method 600/R-93/116

Lab Job No.: PLM-05172
Report Date: 4/23/2012
Sample Date: 4/10/2012

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On 4/13/2012, eighty-one (81) bulk samples were submitted by Mr. Paul Heidgerd of Dougherty Sprague Environmental, Inc. for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein.

STATEMENT OF LABORATORY ACCREDITATION

The samples were analyzed in general accordance with the procedures outlined in the Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116 or the U.S. Environmental Protection Agency method, under AHERA, for the analysis of asbestos in building materials by polarized light microscopy. The results of each bulk sample relate only to the material tested and the results shall not be used to claim product endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Specific questions concerning bulk sample results shall be directed to the Laboratory Director.

Analyst: Kathy Schosek, John R. Cates

Laboratory Director: John R. Cates, P.G.

Approved Signatory:



NVLAP LAB CODE 200569-0

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217486**Field ID #: **01**Client Sample Description: **Red Brick & Mortar - Entrance Area Low Wall & Evaporative Chiller Support Walls****Layer 1 Brick**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brick Red	Blocky/Hard	Yes	ND	ND	80

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Fired Clays	95		Non-fibrous						
Paint	5								

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 2 Mortar**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Hard / Blocky	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217486**

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217487**Field ID #: **02**Client Sample Description: **Red Brick & Mortar - Entrance Area Low Wall & Evaporative Chiller Support Walls****Layer 1 Brick**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brick Red	Blocky/Hard	Yes	ND	ND	80

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Fired Clays	95		Non-fibrous						
Paint	5								

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 2 Mortar**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Hard / Blocky	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217487**

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217488**Field ID #: **03**Client Sample Description: **Red Brick & Mortar - Entrance Area Low Wall & Evaporative Chiller Support Walls****Layer 1 Brick**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brick Red	Blocky/Hard	Yes	ND	ND	80

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Fired Clays	95		Non-fibrous						
Paint	5								

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 2 Mortar**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Hard / Blocky	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217488**

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217489**Field ID #: **04**Client Sample Description: **Two-Part Plaster System - Front Façade Exterior****Layer 1 Plaster Topcoat**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White w/wht pt	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	100		Non-fibrous						
<u>Prep/treatment:</u>	mechanical separation		<u>Asbestos Content:</u> None Detected						

Layer 2 Plaster

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Hard / Blocky	Yes	ND	ND	90

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u>	mechanical separation		<u>Asbestos Content:</u> None Detected						

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217489**

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217490**Field ID #: **05**Client Sample Description: **Two-Part Plaster System - Front Façade Exterior****Layer 1 Plaster Topcoat**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White w/wht pt	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	100		Non-fibrous						
<u>Prep/treatment:</u>	mechanical separation		<u>Asbestos Content:</u> None Detected						

Layer 2 Plaster

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Hard / Blocky	Yes	ND	ND	90

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u>	mechanical separation		<u>Asbestos Content:</u> None Detected						

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217490**

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217491**Field ID #: **06**Client Sample Description: **Two-Part Plaster System - Front Façade Exterior****Layer 1 Plaster Topcoat**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White w/wht pt	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	100		Non-fibrous						
<u>Prep/treatment:</u>	mechanical separation		<u>Asbestos Content:</u> None Detected						

Layer 2 Plaster

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Hard / Blocky	Yes	ND	ND	90

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u>	mechanical separation		<u>Asbestos Content:</u> None Detected						

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217491**

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217492**Field ID #: **07**Client Sample Description: **Tan Bricks & Mortars - Front Façade & Exterior Walls****Layer 1 Brick**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Tan	Blocky/Hard	Yes	ND	ND	80

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Fired Clays	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 2 Mortar

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard / Blocky	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217492**

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217493**Field ID #: **08**Client Sample Description: **Tan Bricks & Mortars - Front Façade & Exterior Walls****Layer 1 Brick**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Tan	Blocky/Hard	Yes	ND	ND	80

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Fired Clays	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 2 Mortar

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard / Blocky	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217493**

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217494**Field ID #: **09**Client Sample Description: **Tan Bricks & Mortars - Front Façade & Exterior Walls****Layer 1 Brick**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Tan	Blocky/Hard	Yes	ND	ND	80

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Fired Clays	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 2 Mortar

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard / Blocky	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217494**

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217495**Field ID #: **10**Client Sample Description: **Roofing Tar / Silver Roof Sealant / Tan Caulk - Front Façade Marquee Outline & Store Fronts****Layer 1 Silver Paint**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Silver	Asphaltic	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	10		Non-fibrous						
Binders / Paint	85		Non-fibrous						
Chrysotile	5	4	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **heat / melt** Asbestos Content: **5% Chrysotile**

Layer 2 Roofing Mastic

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Black	Asphaltic	Yes	ND	ND	75

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Tar Binders	95		Non-fibrous						
Chrysotile	5	4	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **heat / melt** Asbestos Content: **5% Chrysotile**

Layer 3 Caulking

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Tan	Hard	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders	97		Non-fibrous						
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **heat / melt** Asbestos Content: **3% Chrysotile**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217495**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217498**Field ID #: **13**Client Sample Description: **Roof System Core - Roof****Layer 1 Roofing Membrane**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			Black	Fibrous	Yes	20	ND	100	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Tar Binders	80		Non-fibrous						
Cellulose Fibers	20		ribbons				high		
<u>Prep/treatment:</u> mechanical separation			<u>Asbestos Content:</u> None Detected						

Comments:

Analyst: **Kathy Schosek**Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217498**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217499**Field ID #: **14**Client Sample Description: **Roof System Core - Roof****Layer 1 Roofing Membrane**

Stereoscopic Examination

ColorTextureHomogeneous?% Fibrous% Asbestos% of Sample**Black****Fibrous****Yes****20****ND****100**

PLM Examination:

Components%+/-MorphologyColor/
PleochroismParallel
Ref. IndexPerpendicular
Ref. IndexBirefExtinction
AngleSign of
Elongation**Aggregate/Tar Binders****80****Non-fibrous****Cellulose Fibers****20****ribbons****high**Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217500**Field ID #: **15**Client Sample Description: **Roof System Core - Roof****Layer 1 Roofing Membrane**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			Black	Fibrous	Yes	20	ND	100	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Tar Binders	80		Non-fibrous						
Cellulose Fibers	20		ribbons				high		
<u>Prep/treatment:</u> mechanical separation			<u>Asbestos Content:</u> None Detected						

Comments:

Analyst: **Kathy Schosek**Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217500**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217501**Field ID #: **16**Client Sample Description: **1' X 1' Pinhole Acoustic Wall Tile / Mastics - Side Walls of Seating Area****Layer 1 Ceiling Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Tan/White	Fibrous	Yes	85	ND	90

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Binders / Paint	15		Non-fibrous						
Cellulose Fibers	85		ribbons					high	

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 2 Brown Mastic**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brown	Hard	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Glue Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217501**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217502**Field ID #: **17**Client Sample Description: **1' X 1' Pinhole Acoustic Wall Tile / Mastics - Side Walls of Seating Area****Layer 1 Ceiling Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Tan/White	Fibrous	Yes	85	ND	90

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Binders / Paint	15		Non-fibrous						
Cellulose Fibers	85		ribbons					high	

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 2 Brown Mastic**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brown	Rubbery	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Chrysotile	2	1	Silky / Wavy	None	1.556	1.549	low	Parallel	+
Glue Binders	98		Non-fibrous						

Prep/treatment: **heat / melt**Asbestos Content: **2% Chrysotile**

Comments:

Analyst: **Kathy Schosek**Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217502**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217504**Field ID #: **19**Client Sample Description: **Textured White 4' X 1.5' Acoustic Ceiling Tile - Ceiling of Seating Area (nailed, no mastic)****Layer 1 Paint Texture**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Blocky	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	100		Non-fibrous						
<u>Prep/treatment:</u>	solvent dissolution		<u>Asbestos Content:</u> None Detected						

Layer 2 Ceiling Tile

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Tan	Fibrous	Yes	95	ND	95

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Binders	5		Non-fibrous						
Cellulose Fibers	95		ribbons						
<u>Prep/treatment:</u>	mechanical separation		<u>Asbestos Content:</u> None Detected						

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/16/2012**Lab Job #: **PLM-05172**Sample #: **CL217504**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217505**Field ID #: **20**Client Sample Description: **Textured White 4' X 1.5' Acoustic Ceiling Tile - Ceiling of Seating Area (nailed, no mastic)****Layer 1 Paint Texture**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Blocky	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	100		Non-fibrous						
<u>Prep/treatment:</u>	solvent dissolution		<u>Asbestos Content:</u> None Detected						

Layer 2 Ceiling Tile

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Tan	Fibrous	Yes	95	ND	95

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Binders	5		Non-fibrous						
Cellulose Fibers	95		ribbons				high		
<u>Prep/treatment:</u>	mechanical separation		<u>Asbestos Content:</u> None Detected						

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/17/2012**Lab Job #: **PLM-05172**Sample #: **CL217505**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217506**Field ID #: **21**Client Sample Description: **Textured White 4' X 1.5' Acoustic Ceiling Tile - Ceiling of Seating Area (nailed, no mastic)****Layer 1 Paint Texture**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Blocky	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	100		Non-fibrous						
<u>Prep/treatment:</u>	solvent dissolution		<u>Asbestos Content:</u> None Detected						

Layer 2 Ceiling Tile

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Tan	Fibrous	Yes	95	ND	95

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Binders	5		Non-fibrous						
Cellulose Fibers	95		ribbons						
<u>Prep/treatment:</u>	mechanical separation		<u>Asbestos Content:</u> None Detected						

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/17/2012**Lab Job #: **PLM-05172**Sample #: **CL217506**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217507**Field ID #: **22**Client Sample Description: **Smooth White 2' X 4' Suspended Acoustic Ceiling Tile - Ceiling of Concession Area****Layer 1 Ceiling Tile**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>		
			Beige w/wht pt	Fibrous	Yes	85	ND	100		
PLM Examination:										
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>	
Binders / Paint	10		Non-fibrous							
Cellulose Fibers	25		ribbons				high			
Mineral Wool Fibers	60		Rods				0			
Perlite	5		Glass Foam				0			
Prep/treatment: mechanical separation				Asbestos Content: None Detected						

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/17/2012**Lab Job #: **PLM-05172**Sample #: **CL217507**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217508**Field ID #: **23**Client Sample Description: **Smooth White 2' X 4' Suspended Acoustic Ceiling Tile - Ceiling of Concession Area****Layer 1 Ceiling Tile**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			Beige w/wht pt	Fibrous	Yes	85	ND	100	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Binders / Paint	10		Non-fibrous						
Cellulose Fibers	25		ribbons				high		
Mineral Wool Fibers	60		Rods				0		
Perlite	5		Glass Foam				0		
Prep/treatment: mechanical separation				Asbestos Content: None Detected					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/17/2012**Lab Job #: **PLM-05172**Sample #: **CL217508**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217509**Field ID #: **24**Client Sample Description: **Smooth White 2' X 4' Suspended Acoustic Ceiling Tile - Ceiling of Concession Area****Layer 1 Ceiling Tile**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>		
			Beige w/wht pt	Fibrous	Yes	85	ND	100		
PLM Examination:										
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>	
Binders / Paint	10		Non-fibrous							
Cellulose Fibers	25		ribbons				high			
Mineral Wool Fibers	60		Rods				0			
Perlite	5		Glass Foam				0			
Prep/treatment: mechanical separation				Asbestos Content: None Detected						

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/17/2012**Lab Job #: **PLM-05172**Sample #: **CL217509**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217510**Field ID #: **25**Client Sample Description: **Two-Part Plaster on Fiberboard Ceiling & Wall System - Interior Walls & Ceilings of Concession Area & Barber Shop****Layer 1 Paint Texture**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Blocky	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	100		Non-fibrous						

Prep/treatment: **solvent dissolution**Asbestos Content: **None Detected****Layer 2 Plaster**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Tan	Hard / Blocky	Yes	ND	ND	55

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 3 Fiberboard**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brown	Fibrous	Yes	100	ND	35

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders	5		Non-fibrous						
Cellulose Fibers	95		ribbons						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/17/2012**Lab Job #: **PLM-05172**Sample #: **CL217510**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217511**Field ID #: **26**Client Sample Description: **Two-Part Plaster on Fiberboard Ceiling & Wall System - Interior Walls & Ceilings of Concession Area & Barber Shop****Layer 1 Paint Texture**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Blocky	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	100		Non-fibrous						

Prep/treatment: **solvent dissolution**Asbestos Content: **None Detected****Layer 2 Plaster**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Tan	Hard / Blocky	Yes	ND	ND	55

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 3 Fiberboard**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brown	Fibrous	Yes	100	ND	35

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders	5		Non-fibrous						
Cellulose Fibers	95		ribbons						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217511**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217512**Field ID #: **27**Client Sample Description: **Two-Part Plaster on Fiberboard Ceiling & Wall System - Interior Walls & Ceilings of Concession Area & Barber Shop****Layer 1 Paint Texture**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Blocky	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	100		Non-fibrous						

Prep/treatment: **solvent dissolution**Asbestos Content: **None Detected****Layer 2 Plaster**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Tan	Hard / Blocky	Yes	ND	ND	55

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 3 Fiberboard**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brown	Fibrous	Yes	100	ND	35

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders	5		Non-fibrous						
Cellulose Fibers	95		ribbons						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217512**

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Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217513**Field ID #: **28**Client Sample Description: **Fissured White 2' X 4' Suspended Acoustic Ceiling Tile - Ceiling of Barber Shop****Layer 1 Ceiling Tile**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			Beige w/wht pt	Fibrous	Yes	60	ND	100	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Binders / Paint	10		Non-fibrous						
Cellulose Fibers	30		ribbons				high		
Mineral Wool Fibers	30		Rods				0		
Perlite	30		Glass Foam				0		
Prep/treatment: mechanical separation				Asbestos Content: None Detected					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217513**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217514**Field ID #: **29**Client Sample Description: **Fissured White 2' X 4' Suspended Acoustic Ceiling Tile - Ceiling of Barber Shop****Layer 1 Ceiling Tile**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>		
			Beige w/wht pt	Fibrous	Yes	60	ND	100		
PLM Examination:										
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>	
Binders / Paint	10		Non-fibrous							
Cellulose Fibers	30		ribbons				high			
Mineral Wool Fibers	30		Rods				0			
Perlite	30		Glass Foam				0			
Prep/treatment: mechanical separation				Asbestos Content: None Detected						

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217514**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217515**Field ID #: **30**Client Sample Description: **Fissured White 2' X 4' Suspended Acoustic Ceiling Tile - Ceiling of Barber Shop****Layer 1 Ceiling Tile**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			Beige w/wht pt	Fibrous	Yes	60	ND	100	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Binders / Paint	10		Non-fibrous						
Cellulose Fibers	30		ribbons				high		
Mineral Wool Fibers	30		Rods				0		
Perlite	30		Glass Foam				0		
Prep/treatment: mechanical separation				Asbestos Content: None Detected					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217515**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217516**Field ID #: **31**Client Sample Description: **Popcorn Texture - Upper Walls & Ceiling of Entrance Area****Layer 1 Spray-Applied Tx**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			White	Fibrous	No	<1	<1	100	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	67		Non-fibrous						
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+
Mica	30		Platelets / Books						
<u>Prep/treatment:</u>	mechanical separation			<u>Asbestos Content:</u> 3% Chrysotile (by PLM) 4.00% Chrysotile (by Point Count)					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217516**

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Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217519**Field ID #: **34**Client Sample Description: **Drywall/Joint Compound/Popcorn Texture - Walls & Ceiling of Lobby****Layer 1 Spray-Applied Tx**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	No	<1	<1	25

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders/Paint	67		Non-fibrous						
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+
Mica	30		Platelets / Books						

Prep/treatment: **mechanical separation**

Asbestos Content: **3% Chrysotile
(by PLM)
2.75% Chrysotile
(by Point Count)**

Layer 2 Joint Tape

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Cream	Fibrous	Yes	100	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 3 Joint Compound**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	Yes	ND	ND	25

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	97		Non-fibrous						
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **mechanical separation**

Asbestos Content: **3% Chrysotile
(by PLM)
1.50% Chrysotile
(by Point Count)**

Layer 4 Paper

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	Yes	100	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**

Lab Job #: **PLM-05172**Sample #: **CL217519**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217519**Field ID #: **34**Client Sample Description: **Drywall/Joint Compound/Popcorn Texture - Walls & Ceiling of Lobby****Layer 5 Wallboard Material**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
			White	Blocky	Yes	1	ND	30
PLM Examination:								
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>
Aggregate	4		Non-fibrous					
Cellulose Fibers	1		ribbons					
Gypsum Binders	95		Non-fibrous				high	
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected				

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217519**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217520**Field ID #: **35**Client Sample Description: **Drywall/Joint Compound/Popcorn Texture - Walls & Ceiling of Lobby****Layer 1 Spray-Applied Tx**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	No	<1	<1	25

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders/Paint	67		Non-fibrous						
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+
Mica	30		Platelets / Books						

Prep/treatment: **mechanical separation**Asbestos Content: **3% Chrysotile****Layer 2 Joint Tape**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Cream	Fibrous	Yes	100	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 3 Joint Compound**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	Yes	ND	ND	25

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	97		Non-fibrous						
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **mechanical separation**Asbestos Content: **3% Chrysotile****Layer 4 Paper**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	Yes	100	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 5 Wallboard Material**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	Yes	1	ND	30

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate	4		Non-fibrous						
Cellulose Fibers	1		ribbons				high		
Gypsum Binders	95		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172** Sample #: **CL217520**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217521**Field ID #: **36**Client Sample Description: **Drywall/Joint Compound/Popcorn Texture - Walls & Ceiling of Lobby****Layer 1 Spray-Applied Tx**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	No	<1	<1	25

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders/Paint	67		Non-fibrous						
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+
Mica	30		Platelets / Books						

Prep/treatment: **mechanical separation**Asbestos Content: **3% Chrysotile****Layer 2 Joint Tape**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Cream	Fibrous	Yes	100	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 3 Joint Compound**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	Yes	ND	ND	25

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	97		Non-fibrous						
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **mechanical separation**Asbestos Content: **3% Chrysotile****Layer 4 Paper**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	Yes	100	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 5 Wallboard Material**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	Yes	1	ND	30

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate	4		Non-fibrous						
Cellulose Fibers	1		ribbons				high		
Gypsum Binders	95		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217521**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217522**Field ID #: **37**Client Sample Description: **Popcorn Texture w/Vermiculite - Ceiling of Ticket Booth****Layer 1 Spray-Applied Tx**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			White	Fibrous	No	<1	<1	100	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	65		Non-fibrous						
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+
Metal Foil	2			Opaque					
Mica	30		Platelets / Books						
<u>Prep/treatment:</u>	mechanical separation			<u>Asbestos Content:</u> 3% Chrysotile (by PLM) 2.25% Chrysotile (by Point Count)					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217522**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217525**Field ID #: **40**Client Sample Description: **Wood Wall Panel Mastics - Walls of Entrance, Concession, Office, Barber Shop & Lobby Areas****Layer 1 Yellow Mastic**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Yellow-Tan	Rubbery	Yes	ND	ND	50

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Glue Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**Asbestos Content: **None Detected****Layer 2 Brown Mastic**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brown	Hard	Yes	ND	ND	50

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217525**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217526**Field ID #: **41**Client Sample Description: **Wood Wall Panel Mastics - Walls of Entrance, Concession, Office, Barber Shop & Lobby Areas****Layer 1 Yellow Mastic**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Yellow-Tan	Rubbery	Yes	ND	ND	50

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Glue Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**Asbestos Content: **None Detected****Layer 2 Brown Mastic**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brown	Hard	Yes	ND	ND	50

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217526**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217527**Field ID #: **42**Client Sample Description: **Wood Wall Panel Mastics - Walls of Entrance, Concession, Office, Barber Shop & Lobby Areas****Layer 1 Yellow Mastic**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Yellow-Tan	Rubbery	Yes	ND	ND	50

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Glue Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**Asbestos Content: **None Detected****Layer 2 Brown Mastic**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brown	Hard	Yes	ND	ND	50

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217527**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217528**Field ID #: **43**Client Sample Description: **12" X 12" Cream w/Marble Chips VCT & Mastic - Concession Area Floor****Layer 1 Floor Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Cream	Hard	Yes	ND	ND	95

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Vinyl Binders	95		Non-fibrous						
Chrysotile	5	4	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **heat / melt** Asbestos Content: **5% Chrysotile**

Layer 2 Black Mastic

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Black	Asphaltic	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Tar Binders	95		Non-fibrous						
Chrysotile	5	4	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **heat / melt** Asbestos Content: **5% Chrysotile**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172** Sample #: **CL217528**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217531**Field ID #: **46**Client Sample Description: **12" X 12" Tan w/Gray & Brown VCT & Mastic - Office Floor****Layer 1 Floor Tile**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>		
			Tan	Hard	Yes	ND	ND	98		
PLM Examination:										
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>	
Aggregate/Vinyl Binders	97		Non-fibrous							
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+	
<u>Prep/treatment:</u>	heat / melt			<u>Asbestos Content:</u> 3% Chrysotile						

Layer 2 Black Mastic

Stereoscopic Examination

			Polariscope Examination							
			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>		
			Black	Asphaltic	Yes	ND	ND	2		
PLM Examination:										
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>	
Aggregate/Tar Binders	95		Non-fibrous							
Chrysotile	5	4	Silky / Wavy	None	1.556	1.549	low	Parallel	+	
<u>Prep/treatment:</u>	heat / melt		<u>Asbestos Content:</u> 5% Chrysotile							

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217531**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217534**Field ID #: **49**Client Sample Description: **12" X 12" Olive VCT & Mastic - Lobby Floor****Layer 1 Floor Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Olive	Hard	Yes	ND	ND	98

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Vinyl Binders	97		Non-fibrous						
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **heat / melt** Asbestos Content: **3% Chrysotile**

Layer 2 Black Mastic

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Black	Asphaltic	Yes	ND	ND	2

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Tar Binders	95		Non-fibrous						
Chrysotile	5	4	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **heat / melt** Asbestos Content: **5% Chrysotile**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217534**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217537**Field ID #: **52**Client Sample Description: **9" X 9" Tan VCT & Mastic - Barber Shop Floor, Bottom Layer****Layer 1 Floor Tile**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			Tan	Hard	Yes	ND	ND	99	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Vinyl Binders	90		Non-fibrous						
Chrysotile	10	5	Silky / Wavy	None	1.556	1.549	low	Parallel	+
Prep/treatment: heat / melt				Asbestos Content: 10% Chrysotile					

Layer 2 Black Mastic

Stereoscopic Examination

Layer 1 - Black matrix			Polariscope Examination						
			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			Black	Asphaltic	Yes	ND	ND	1	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Chrysotile	5	4	Silky / Wavy	None	1.556	1.549	low	Parallel	+
Tar Binders	95		Non-fibrous						
Prep/treatment:		heat / melt		Asbestos Content: 5% Chrysotile					

Comments:

Analyst: **Kathy Schosek**Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217537**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217540**Field ID #: **55**Client Sample Description: **12" X 12" White Marble-Look VCT & Mastic - Barber Shop Floor, Top Layer****Layer 1 Floor Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard	Yes	ND	ND	98

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Vinyl Binders	97		Non-fibrous						
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **heat / melt** Asbestos Content: **3% Chrysotile**

Layer 2 Black Mastic

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Black	Asphaltic	Yes	ND	ND	2

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Tar Binders	95		Non-fibrous						
Chrysotile	5	4	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **heat / melt** Asbestos Content: **5% Chrysotile**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217540**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217543**Field ID #: **58**Client Sample Description: **Two-Part Plaster System - All Exterior Walls & Ceilings of Entrance, Balcony & Stage Areas****Layer 1 Paint Texture**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Blocky	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	100		Non-fibrous						
<u>Prep/treatment:</u>	solvent dissolution			<u>Asbestos Content:</u>	None Detected				

Layer 2 Plaster

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Hard / Blocky	Yes	ND	ND	90

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u>	mechanical separation			<u>Asbestos Content:</u>	None Detected				

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217543**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217544**Field ID #: **59**Client Sample Description: **Two-Part Plaster System - All Exterior Walls & Ceilings of Entrance, Balcony & Stage Areas****Layer 1 Paint Texture**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Blocky	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	100		Non-fibrous						
<u>Prep/treatment:</u>	solvent dissolution			<u>Asbestos Content:</u>	None Detected				

Layer 2 Plaster

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Hard / Blocky	Yes	ND	ND	90

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u>	mechanical separation			<u>Asbestos Content:</u>	None Detected				

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217544**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217545**Field ID #: **60**Client Sample Description: **Two-Part Plaster System - All Exterior Walls & Ceilings of Entrance, Balcony & Stage Areas****Layer 1 Paint Texture**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Blocky	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	100		Non-fibrous						
<u>Prep/treatment:</u>	solvent dissolution			<u>Asbestos Content:</u>	None Detected				

Layer 2 Plaster

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Hard / Blocky	Yes	ND	ND	90

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u>	mechanical separation			<u>Asbestos Content:</u>	None Detected				

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217545**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217546**Field ID #: **61**Client Sample Description: **Green Ceramic Wall Tile / Mastic / Grout - Men's Restroom Walls****Layer 1 Ceramic Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Green	Hard	Yes	ND	ND	75

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Sintered Clays	100		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 2 Grout

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Cementitious	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 3 Yellow Mastic

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Yellow-Tan	Rubbery	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Glue Binders	100		Non-fibrous						
<u>Prep/treatment:</u> heat / melt				<u>Asbestos Content:</u> None Detected					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217546**

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Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217547**Field ID #: **62**Client Sample Description: **Green Ceramic Wall Tile / Mastic / Grout - Men's Restroom Walls****Layer 1 Ceramic Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Green	Hard	Yes	ND	ND	75

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Sintered Clays	100		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 2 Grout

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Cementitious	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 3 Yellow Mastic

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Yellow-Tan	Rubbery	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Glue Binders	100		Non-fibrous						
<u>Prep/treatment:</u> heat / melt				<u>Asbestos Content:</u> None Detected					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217547**

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Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217548**Field ID #: **63**Client Sample Description: **Green Ceramic Wall Tile / Mastic / Grout - Men's Restroom Walls****Layer 1 Ceramic Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Green	Hard	Yes	ND	ND	75

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Sintered Clays	100		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 2 Grout

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Cementitious	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 3 Yellow Mastic

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Yellow-Tan	Rubbery	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Glue Binders	100		Non-fibrous						
<u>Prep/treatment:</u> heat / melt				<u>Asbestos Content:</u> None Detected					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217548**

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Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217549**Field ID #: **64**Client Sample Description: **Smooth White Ceramic Floor Tile / Mastic / Grout - Men's Restroom Floor****Layer 1 Ceramic Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard	Yes	ND	ND	75

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Sintered Clays	100		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 2 Grout**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Cementitious	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 3 Mastic**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard / Blocky	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217549**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217550**Field ID #: **65**Client Sample Description: **Smooth White Ceramic Floor Tile / Mastic / Grout - Men's Restroom Floor****Layer 1 Ceramic Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard	Yes	ND	ND	75

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Sintered Clays	100		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 2 Grout**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Cementitious	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 3 Mastic**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard / Blocky	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217550**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217551**Field ID #: **66**Client Sample Description: **Smooth White Ceramic Floor Tile / Mastic / Grout - Men's Restroom Floor****Layer 1 Ceramic Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard	Yes	ND	ND	75

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Sintered Clays	100		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 2 Grout**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Cementitious	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 3 Mastic**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard / Blocky	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217551**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217552**Field ID #: **67**Client Sample Description: **Textured White Ceramic Floor Tile / Mastic / Grout - Women's Restroom Floor, Top Layer****Layer 1 Ceramic Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard	Yes	ND	ND	75

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Sintered Clays	100		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 2 Grout

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Cementitious	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 3 Mastic/Texture

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard / Blocky	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217552**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217553**Field ID #: **68**Client Sample Description: **Textured White Ceramic Floor Tile / Mastic / Grout - Women's Restroom Floor, Top Layer****Layer 1 Ceramic Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard	Yes	ND	ND	75

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Sintered Clays	100		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 2 Grout

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Cementitious	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 3 Mastic/Texture

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard / Blocky	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217553**

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Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217554**Field ID #: **69**Client Sample Description: **Textured White Ceramic Floor Tile / Mastic / Grout - Women's Restroom Floor, Top Layer****Layer 1 Ceramic Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard	Yes	ND	ND	75

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Sintered Clays	100		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 2 Grout**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Cementitious	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected****Layer 3 Mastic/Texture**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
White	Hard / Blocky	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						

Prep/treatment: **mechanical separation**Asbestos Content: **None Detected**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217554**

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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217555**Field ID #: **70**Client Sample Description: **Red Quarry Tile Thinset & Grout - Entrance Area Floor****Layer 1 Stone Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Red	Hard	Yes	ND	ND	75

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Sintered Clays	100		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 2 Grout

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Cementitious	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 3 Thinset

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Cementitious	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172** Sample #: **CL217555**

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TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217556**Field ID #: **71**Client Sample Description: **Red Quarry Tile Thinset & Grout - Entrance Area Floor****Layer 1 Stone Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Red	Hard	Yes	ND	ND	75

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Sintered Clays	100		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 2 Grout

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Cementitious	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 3 Thinset

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Cementitious	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217556**

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Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217557**Field ID #: **72**Client Sample Description: **Red Quarry Tile Thinset & Grout - Entrance Area Floor****Layer 1 Stone Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Red	Hard	Yes	ND	ND	75

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Sintered Clays	100		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 2 Grout

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Cementitious	Yes	ND	ND	5

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Layer 3 Thinset

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Grey	Cementitious	Yes	ND	ND	20

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate	65		Non-fibrous						
Cement Binders	35		Non-fibrous						
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217557**

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Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217558**Field ID #: **73**Client Sample Description: **12" X 12" Brown VCT & Mastic - Ticket Booth Floor****Layer 1 Floor Tile**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brown	Hard	Yes	ND	ND	98

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Vinyl Binders	97		Non-fibrous						
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **heat / melt** Asbestos Content: **3% Chrysotile**

Layer 2 Black Mastic

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Black	Asphaltic	Yes	ND	ND	2

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Tar Binders	95		Non-fibrous						
Chrysotile	5	4	Silky / Wavy	None	1.556	1.549	low	Parallel	+

Prep/treatment: **heat / melt** Asbestos Content: **5% Chrysotile**

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217558**

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Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217561**Field ID #: **76**Client Sample Description: **Brown Sheet Vinyl Flooring - Projection Room Floor****Layer 1 Sheet Flooring**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brown	Hard	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Vinyl Binders	100		Non-fibrous						
<u>Prep/treatment:</u> heat / melt				<u>Asbestos Content:</u> None Detected					

Layer 2 Fibrous Backing

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Black	Fibrous	Yes	60	ND	90

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Cellulose Fibers	60		ribbons						
Synthetic Fibers	2		Monofilaments						
Tar Binders	38		Non-fibrous				high		
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217561**

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Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL217562**Field ID #: **77**Client Sample Description: **Brown Sheet Vinyl Flooring - Projection Room Floor****Layer 1 Sheet Flooring**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brown	Hard	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Vinyl Binders	100		Non-fibrous						
<u>Prep/treatment:</u>	heat / melt		<u>Asbestos Content:</u> None Detected						

Layer 2 Fibrous Backing

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Black	Fibrous	Yes	60	ND	90

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Cellulose Fibers	60		ribbons				high		
Synthetic Fibers	2		Monofilaments						
Tar Binders	38		Non-fibrous						
<u>Prep/treatment:</u>	mechanical separation		<u>Asbestos Content:</u> None Detected						

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217562**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217563**Field ID #: **78**Client Sample Description: **Brown Sheet Vinyl Flooring - Projection Room Floor****Layer 1 Sheet Flooring**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brown	Hard	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Vinyl Binders	100		Non-fibrous						
<u>Prep/treatment:</u> heat / melt				<u>Asbestos Content:</u> None Detected					

Layer 2 Fibrous Backing

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Black	Fibrous	Yes	60	ND	90

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Cellulose Fibers	60		ribbons						
Synthetic Fibers	2		Monofilaments						
Tar Binders	38		Non-fibrous				high		
<u>Prep/treatment:</u> mechanical separation				<u>Asbestos Content:</u> None Detected					

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217563**

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Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217564**Field ID #: **79**Client Sample Description: **Black Tar Impregnated Fiberboard - Walls of Stage in Front of Screen****Layer 1 Fiberboard**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			Tan/Black	Fibrous	No	90	ND	100	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Tar Binders	10		Non-fibrous						
Cellulose Fibers	90		ribbons				high		
<u>Prep/treatment:</u> mechanical separation			<u>Asbestos Content:</u> None Detected						

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217564**

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TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217565**Field ID #: **80**Client Sample Description: **Black Tar Impregnated Fiberboard - Walls of Stage in Front of Screen****Layer 1 Fiberboard**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			Tan/Black	Fibrous	No	90	ND	100	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Tar Binders	10		Non-fibrous						
Cellulose Fibers	90		ribbons				high		
<u>Prep/treatment:</u> mechanical separation			<u>Asbestos Content:</u> None Detected						

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217565**

**Cates Laboratories**1720 Regal Row, Suite 210
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TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

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Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL217566**Field ID #: **81**Client Sample Description: **Black Tar Impregnated Fiberboard - Walls of Stage in Front of Screen****Layer 1 Fiberboard**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			Tan/Black	Fibrous	No	90	ND	100	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Tar Binders	10		Non-fibrous						
Cellulose Fibers	90		ribbons				high		
<u>Prep/treatment:</u> mechanical separation			<u>Asbestos Content:</u> None Detected						

Comments:

Analyst: **Kathy Schosek**
Date Analyzed: **4/19/2012**Lab Job #: **PLM-05172**Sample #: **CL217566**

Dougherty Sprague Environmental, Inc. (dse)
TDSHS License No. - 100447
3902 Industrial St. Suite A 414 N. Main St., Suite 216
Rowlett, TX 75088 Euless, TX 76039
972-412-8666 / Fax -8660 817-540-4100 / Fax -4101

Chain of Custody / Bulk Sample Log



Lab Name: Cates Laboratories, Inc.
Lab Phone No.: 214-920-5006
Lab TDSHS License No.: 30-0287
Lab Job No.: *PLM 5172 (ser 8390)*

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ASBESTOS PLM ☐ Analyze All ☒ Positive Stop ☐ 1 day ☐ 2 day ☐ 3 day ☒ 5 day ☐ Immediate

Client: US Army Corps of Engineers – Fort Worth, Texas Project: Targeted Brownfields Environmental Site Assessment Project No.: *1037508*

Project Address: Paducah Palace Theater, 815 North 8th Street, Paducah, Texas Total No. of Samples: 81

dse Inspector Name: Paul Heidgerd TDSHS License No.: 10-5739 Mobile No.: 972-897-7136 E-mail: pwheidgerd@dsei.com Sample Date: 04/10/12

Sample No.	Sample Description	Location / Notes	Type	Friability
01	Red Brick and Mortar	Entrance Area Low Wall & Evaporative Chiller Support Walls	M	NF
02	Red Brick and Mortar	Entrance Area Low Wall & Evaporative Chiller Support Walls	M	NF
03	Red Brick and Mortar	Entrance Area Low Wall & Evaporative Chiller Support Walls	M	NF
04	Two Part Plaster System	Front Façade Exterior	S	NF
05	Two Part Plaster System	Front Façade Exterior	S	NF
06	Two Part Plaster System	Front Façade Exterior	S	NF
07	Tan Bricks and Mortars	Front Façade and Exterior Walls	M	NF
08	Tan Bricks and Mortars	Front Façade and Exterior Walls	M	NF
09	Tan Bricks and Mortars	Front Façade and Exterior Walls	M	NF
10	Roofing Tar / Silver Roof Sealant / Tan Caulk	Front Façade Marquee Outline and Store Fronts	M	NF
11	Roofing Tar / Silver Roof Sealant / Tan Caulk	Front Façade Marquee Outline and Store Fronts	M	NF
12	Roofing Tar / Silver Roof Sealant / Tan Caulk	Front Façade Marquee Outline and Store Fronts	M	NF
13	Roof System Core	Roof	M	NF
14	Roof System Core	Roof	M	NF
15	Roof System Core	Roof	M	NF
16	1' x 1' Pin Hole Acoustic Wall Tile / Mastics	Side Walls of Seating Area	M	F / NF
17	1' x 1' Pin Hole Acoustic Wall Tile / Mastics	Side Walls of Seating Area	M	F / NF
18	1' x 1' Pin Hole Acoustic Wall Tile / Mastics	Side Walls of Seating Area	M	F / NF

Notes: Do Not Positive Stop Drywall System Samples.

Released By: <i>Paul W. Heidgerd</i>	Date / Time: <i>4/13/12 0700</i>	Received By: <i>Kathy Schenk</i>	Date / Time: <i>4/13/12 07:55</i>
Released By:	Date / Time:	Received By:	Date / Time:

**Chain of Custody
Bulk Sample Log**

(Continued)

dse**Project Name:**
Paducah Palace Theater**dse Project No.:**
1037508**Lab Job No.:**
PLM5172(8390)Page
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Sample No.	Sample Description	Location / Notes	Type	Friability
19	Textured White 4' x 1.5' Acoustic Ceiling Tile	Ceiling of Seating Area (Nailed, No Mastic)	M	F
20	Textured White 4' x 1.5' Acoustic Ceiling Tile	Ceiling of Seating Area (Nailed, No Mastic)	M	F
21	Textured White 4' x 1.5' Acoustic Ceiling Tile	Ceiling of Seating Area (Nailed, No Mastic)	M	F
22	Smooth White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Concession Area	M	F
23	Smooth White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Concession Area	M	F
24	Smooth White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Concession Area	M	F
25	Two Part Plaster on Fiberboard Ceiling and Wall System	Interior Walls and Ceilings of Concession Area and Barber Shop	M / S	F / NF
26	Two Part Plaster on Fiberboard Ceiling and Wall System	Interior Walls and Ceilings of Concession Area and Barber Shop	M / S	F / NF
27	Two Part Plaster on Fiberboard Ceiling and Wall System	Interior Walls and Ceilings of Concession Area and Barber Shop	M / S	F / NF
28	Fissured White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Barber Shop	M	F
29	Fissured White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Barber Shop	M	F
30	Fissured White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Barber Shop	M	F
31	Popcorn Texture	Upper Walls and Ceiling of Entrance Area	S	F
32	Popcorn Texture	Upper Walls and Ceiling of Entrance Area	S	F
33	Popcorn Texture	Upper Walls and Ceiling of Entrance Area	S	F
34	Drywall / Joint Compound / Popcorn Texture	Walls and Ceiling of Lobby	M / S	NF / F
35	Drywall / Joint Compound / Popcorn Texture	Walls and Ceiling of Lobby	M / S	NF / F
36	Drywall / Joint Compound / Popcorn Texture	Walls and Ceiling of Lobby	M / S	NF / F
37	Popcorn Texture w/ Vermiculite	Ceiling of Ticket Booth	S	F
38	Popcorn Texture w/ Vermiculite	Ceiling of Ticket Booth	S	F
39	Popcorn Texture w/ Vermiculite	Ceiling of Ticket Booth	S	F

Notes: Do Not Positive Stop Drywall System Samples.

Released By: <i>Paul W. Heizer</i>	Date / Time: <i>4/13/12 0700</i>	Received By: <i>Kristy Schaefer</i>	Date / Time: <i>4/13/12 07:55</i>
Released By:	Date / Time:	Received By:	Date / Time:

**Chain of Custody
Bulk Sample Log**

(Continued)

dse**Project Name:**
Paducah Palace Theater**dse Project No.:**
1037508**Lab Job No.:**
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Sample No.	Sample Description	Location / Notes	Type	Friability
40	Wood Wall Panel Mastics	Walls of Entrance, Concession, Office, Barber Shop and Lobby Areas	M	NF
41	Wood Wall Panel Mastics	Walls of Entrance, Concession, Office, Barber Shop and Lobby Areas	M	NF
42	Wood Wall Panel Mastics	Walls of Entrance, Concession, Office, Barber Shop and Lobby Areas	M	NF
43	12" x 12" Cream w/ Marble Chips VCT and Mastic	Concession Area Floor	M	NF
44	12" x 12" Cream w/ Marble Chips VCT and Mastic	Concession Area Floor	M	NF
45	12" x 12" Cream w/ Marble Chips VCT and Mastic	Concession Area Floor	M	NF
46	12" x 12" Tan w/ Gray and Brown VCT and Mastic	Office Floor	M	NF
47	12" x 12" Tan w/ Gray and Brown VCT and Mastic	Office Floor	M	NF
48	12" x 12" Tan w/ Gray and Brown VCT and Mastic	Office Floor	M	NF
49	12" x 12" Olive VCT and Mastic	Lobby Floor	M	NF
50	12" x 12" Olive VCT and Mastic	Lobby Floor	M	NF
51	12" x 12" Olive VCT and Mastic	Lobby Floor	M	NF
52	9" x 9" Tan VCT and Mastic	Barber Shop Floor Bottom Layer	M	NF
53	9" x 9" Tan VCT and Mastic	Barber Shop Floor Bottom Layer	M	NF
54	9" x 9" Tan VCT and Mastic	Barber Shop Floor Bottom Layer	M	NF
55	12" x 12" White Marble-Look VCT and Mastic	Barber Shop Floor Top Layer	M	NF
56	12" x 12" White Marble-Look VCT and Mastic	Barber Shop Floor Top Layer	M	NF
57	12" x 12" White Marble-Look VCT and Mastic	Barber Shop Floor Top Layer	M	NF
58	Two Part Plaster System	All Exterior Walls and Ceilings of Entrance, Balcony & Stage Areas	S	NF
59	Two Part Plaster System	All Exterior Walls and Ceilings of Entrance, Balcony & Stage Areas	S	NF
60	Two Part Plaster System	All Exterior Walls and Ceilings of Entrance, Balcony & Stage Areas	S	NF

Notes: Do Not Positive Stop Drywall System Samples.

Released By: <i>Paul H. Hager</i>	Date / Time: <i>4/13/12 0700</i>	Received By: <i>Kathy Schoeck</i>	Date / Time: <i>4/13/12 07:55</i>
Released By:	Date / Time:	Received By:	Date / Time:

**Chain of Custody
Bulk Sample Log**

(Continued)

dse**Project Name:**
Paducah Palace Theater**dse Project No.:**
1037508**Lab Job No.:**
PLM 5172 (8390)Page
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Sample No.	Sample Description	Location / Notes	Type	Friability
61	Green Ceramic Wall Tile / Mastic / Grout	Men's Restroom Walls	M	NF
62	Green Ceramic Wall Tile / Mastic / Grout	Men's Restroom Walls	M	NF
63	Green Ceramic Wall Tile / Mastic / Grout	Men's Restroom Walls	M	NF
64	Smooth White Ceramic Floor Tile / Mastic / Grout	Men's Restroom Floor	M	NF
65	Smooth White Ceramic Floor Tile / Mastic / Grout	Men's Restroom Floor	M	NF
66	Smooth White Ceramic Floor Tile / Mastic / Grout	Men's Restroom Floor	M	NF
67	Textured White Ceramic Floor Tile / Mastic / Grout	Women's Restroom Floor Top layer	M	NF
68	Textured White Ceramic Floor Tile / Mastic / Grout	Women's Restroom Floor Top Layer	M	NF
69	Textured White Ceramic Floor Tile / Mastic / Grout	Women's Restroom Floor Top Layer	M	NF
70	Red Quarry Tile Thinset and Grout	Entrance Area Floor	M	NF
71	Red Quarry Tile Thinset and Grout	Entrance Area Floor	M	NF
72	Red Quarry Tile Thinset and Grout	Entrance Area Floor	M	NF
73	12" x 12" Brown VCT and Mastic	Ticket Booth Floor	M	NF
74	12" x 12" Brown VCT and Mastic	Ticket Booth Floor	M	NF
75	12" x 12" Brown VCT and Mastic	Ticket Booth Floor	M	NF
76	Brown Sheet Vinyl Flooring	Projection Room Floor	M	NF
77	Brown Sheet Vinyl Flooring	Projection Room Floor	M	NF
78	Brown Sheet Vinyl Flooring	Projection Room Floor	M	NF
79	Black Tar Impregnated Fiberboard	Walls of Stage in front of Screen	M	F
80	Black Tar Impregnated Fiberboard	Walls of Stage in front of Screen	M	F
81	Black Tar Impregnated Fiberboard	Walls of Stage in front of Screen	M	F

Notes: Do Not Positive Stop Drywall System Samples.

Released By: <i>Paul W. Hargrett</i>	Date / Time: <i>4/13/12 0700</i>	Received By: <i>Kathy Schuster</i>	Date / Time: <i>4/13/12 07:55</i>
Released By:	Date / Time:	Received By:	Date / Time:

Dougherty Sprague Environmental, Inc. (dse)
TDSHS License No. - 100447
3902 Industrial St. Suite A 414 N. Main St., Suite 216
Rowlett, TX 75088 Euless, TX 76039
972-412-8666 / Fax -8660 817-540-4100 / Fax -4101

Chain of Custody / Bulk Sample Log

dse

Lab Name: Cates Laboratories, Inc.
Lab Phone No.: 214-920-5006
Lab TDSHS License No.: 30-0287
Lab Job No.:

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ASBESTOS PLM <input type="checkbox"/> Analyze All <input checked="" type="checkbox"/> Positive Stop <input type="checkbox"/> 1 day <input type="checkbox"/> 2 day <input type="checkbox"/> 3 day <input checked="" type="checkbox"/> 5 day <input type="checkbox"/> Immediate			
Client: US Army Corps of Engineers – Fort Worth, Texas		Project: Targeted Brownfields Environmental Site Assessment	
Project Address: Paducah Palace Theater, 815 North 8 th Street, Paducah, Texas		Project No.: 1037508	
dse Inspector Name: Paul Heidgerd	TDSHS License No.: 10-5739	Mobile No.: 972-897-7136	E-mail: pwheidgerd@dsei.com
		Total No. of Samples: 81	
		Sample Date: 04/10/12	

Sample No.	Sample Description	Location / Notes	Type	Friability
01	Red Brick and Mortar	Entrance Area Low Wall & Evaporative Chiller Support Walls	M	NF
02	Red Brick and Mortar	Entrance Area Low Wall & Evaporative Chiller Support Walls	M	NF
03	Red Brick and Mortar	Entrance Area Low Wall & Evaporative Chiller Support Walls	M	NF
04	Two Part Plaster System	Front Façade Exterior	S	NF
05	Two Part Plaster System	Front Façade Exterior	S	NF
06	Two Part Plaster System	Front Façade Exterior	S	NF
07	Tan Bricks and Mortars	Front Façade and Exterior Walls	M	NF
08	Tan Bricks and Mortars	Front Façade and Exterior Walls	M	NF
09	Tan Bricks and Mortars	Front Façade and Exterior Walls	M	NF
10	Roofing Tar / Silver Roof Sealant / Tan Caulk	Front Façade Marquee Outline and Store Fronts	M	NF
11	Roofing Tar / Silver Roof Sealant / Tan Caulk	Front Façade Marquee Outline and Store Fronts	M	NF
12	Roofing Tar / Silver Roof Sealant / Tan Caulk	Front Façade Marquee Outline and Store Fronts	M	NF
13	Roof System Core	Roof	M	NF
14	Roof System Core	Roof	M	NF
15	Roof System Core	Roof	M	NF
16	1' x 1' Pin Hole Acoustic Wall Tile / Mastics	Side Walls of Seating Area	M	F / NF
17	1' x 1' Pin Hole Acoustic Wall Tile / Mastics	Side Walls of Seating Area	M	F / NF
18	1' x 1' Pin Hole Acoustic Wall Tile / Mastics	Side Walls of Seating Area	M	F / NF

Notes: Do Not Positive Stop Drywall System Samples.

Released By: <i>Paul W. Heidgerd</i>	Date / Time: 4/13/12 0700	Received By:	Date / Time:
Released By:	Date / Time:	Received By:	Date / Time:

**Chain of Custody
Bulk Sample Log****dse**Project Name:
Paducah Palace Theater

dse Project No.: 1037508

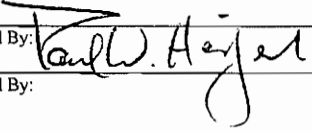
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Sample No.	Sample Description	Location / Notes	Type	Friability
19	Textured White 4' x 1.5' Acoustic Ceiling Tile	Ceiling of Seating Area (Nailed, No Mastic)	M	F
20	Textured White 4' x 1.5' Acoustic Ceiling Tile	Ceiling of Seating Area (Nailed, No Mastic)	M	F
21	Textured White 4' x 1.5' Acoustic Ceiling Tile	Ceiling of Seating Area (Nailed, No Mastic)	M	F
22	Smooth White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Concession Area	M	F
23	Smooth White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Concession Area	M	F
24	Smooth White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Concession Area	M	F
25	Two Part Plaster on Fiberboard Ceiling and Wall System	Interior Walls and Ceilings of Concession Area and Barber Shop	M / S	F / NF
26	Two Part Plaster on Fiberboard Ceiling and Wall System	Interior Walls and Ceilings of Concession Area and Barber Shop	M / S	F / NF
27	Two Part Plaster on Fiberboard Ceiling and Wall System	Interior Walls and Ceilings of Concession Area and Barber Shop	M / S	F / NF
28	Fissured White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Barber Shop	M	F
29	Fissured White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Barber Shop	M	F
30	Fissured White 2' x 4' Suspended Acoustic Ceiling Tile	Ceiling of Barber Shop	M	F
31	Popcorn Texture	Upper Walls and Ceiling of Entrance Area	S	F
32	Popcorn Texture	Upper Walls and Ceiling of Entrance Area	S	F
33	Popcorn Texture	Upper Walls and Ceiling of Entrance Area	S	F
34	Drywall / Joint Compound / Popcorn Texture	Walls and Ceiling of Lobby	M / S	NF / F
35	Drywall / Joint Compound / Popcorn Texture	Walls and Ceiling of Lobby	M / S	NF / F
36	Drywall / Joint Compound / Popcorn Texture	Walls and Ceiling of Lobby	M / S	NF / F
37	Popcorn Texture w/ Vermiculite	Ceiling of Ticket Booth	S	F
38	Popcorn Texture w/ Vermiculite	Ceiling of Ticket Booth	S	F
39	Popcorn Texture w/ Vermiculite	Ceiling of Ticket Booth	S	F

Notes: Do Not Positive Stop Drywall System Samples.

Released By: 	Date / Time: 4/13/12 0700	Received By:	Date / Time:
Released By:	Date / Time:	Received By:	Date / Time:

**Chain of Custody
Bulk Sample Log**

dse

Project Name:
Paducah Palace Theater

dse Project No.: 1037508

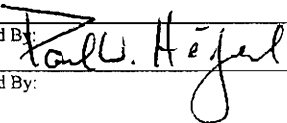
Lab Job No.:

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(Continued)

Sample No.	Sample Description	Location / Notes	Type	Friability
40	Wood Wall Panel Mastics	Walls of Entrance, Concession, Office, Barber Shop and Lobby Areas	M	NF
41	Wood Wall Panel Mastics	Walls of Entrance, Concession, Office, Barber Shop and Lobby Areas	M	NF
42	Wood Wall Panel Mastics	Walls of Entrance, Concession, Office, Barber Shop and Lobby Areas	M	NF
43	12" x 12" Cream w/ Marble Chips VCT and Mastic	Concession Area Floor	M	NF
44	12" x 12" Cream w/ Marble Chips VCT and Mastic	Concession Area Floor	M	NF
45	12" x 12" Cream w/ Marble Chips VCT and Mastic	Concession Area Floor	M	NF
46	12" x 12" Tan w/ Gray and Brown VCT and Mastic	Office Floor	M	NF
47	12" x 12" Tan w/ Gray and Brown VCT and Mastic	Office Floor	M	NF
48	12" x 12" Tan w/ Gray and Brown VCT and Mastic	Office Floor	M	NF
49	12" x 12" Olive VCT and Mastic	Lobby Floor	M	NF
50	12" x 12" Olive VCT and Mastic	Lobby Floor	M	NF
51	12" x 12" Olive VCT and Mastic	Lobby Floor	M	NF
52	9" x 9" Tan VCT and Mastic	Barber Shop Floor Bottom Layer	M	NF
53	9" x 9" Tan VCT and Mastic	Barber Shop Floor Bottom Layer	M	NF
54	9" x 9" Tan VCT and Mastic	Barber Shop Floor Bottom Layer	M	NF
55	12" x 12" White Marble-Look VCT and Mastic	Barber Shop Floor Top Layer	M	NF
56	12" x 12" White Marble-Look VCT and Mastic	Barber Shop Floor Top Layer	M	NF
57	12" x 12" White Marble-Look VCT and Mastic	Barber Shop Floor Top Layer	M	NF
58	Two Part Plaster System	All Exterior Walls and Ceilings of Entrance, Balcony & Stage Areas	S	NF
59	Two Part Plaster System	All Exterior Walls and Ceilings of Entrance, Balcony & Stage Areas	S	NF
60	Two Part Plaster System	All Exterior Walls and Ceilings of Entrance, Balcony & Stage Areas	S	NF

Notes: Do Not Positive Stop Drywall System Samples.

Released By: 	Date / Time: 4/13/12 0700	Received By:	Date / Time:
Released By:	Date / Time:	Received By:	Date / Time:

**Chain of Custody
Bulk Sample Log****dse**Project Name:
Paducah Palace Theater

dse Project No.: 1037508

Lab Job No.:

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(Continued)

Sample No.	Sample Description	Location / Notes	Type	Friability
61	Green Ceramic Wall Tile / Mastic / Grout	Men's Restroom Walls	M	NF
62	Green Ceramic Wall Tile / Mastic / Grout	Men's Restroom Walls	M	NF
63	Green Ceramic Wall Tile / Mastic / Grout	Men's Restroom Walls	M	NF
64	Smooth White Ceramic Floor Tile / Mastic / Grout	Men's Restroom Floor	M	NF
65	Smooth White Ceramic Floor Tile / Mastic / Grout	Men's Restroom Floor	M	NF
66	Smooth White Ceramic Floor Tile / Mastic / Grout	Men's Restroom Floor	M	NF
67	Textured White Ceramic Floor Tile / Mastic / Grout	Women's Restroom Floor Top layer	M	NF
68	Textured White Ceramic Floor Tile / Mastic / Grout	Women's Restroom Floor Top Layer	M	NF
69	Textured White Ceramic Floor Tile / Mastic / Grout	Women's Restroom Floor Top Layer	M	NF
70	Red Quarry Tile Thinset and Grout	Entrance Area Floor	M	NF
71	Red Quarry Tile Thinset and Grout	Entrance Area Floor	M	NF
72	Red Quarry Tile Thinset and Grout	Entrance Area Floor	M	NF
73	12" x 12" Brown VCT and Mastic	Ticket Booth Floor	M	NF
74	12" x 12" Brown VCT and Mastic	Ticket Booth Floor	M	NF
75	12" x 12" Brown VCT and Mastic	Ticket Booth Floor	M	NF
76	Brown Sheet Vinyl Flooring	Projection Room Floor	M	NF
77	Brown Sheet Vinyl Flooring	Projection Room Floor	M	NF
78	Brown Sheet Vinyl Flooring	Projection Room Floor	M	NF
79	Black Tar Impregnated Fiberboard	Walls of Stage in front of Screen	M	F
80	Black Tar Impregnated Fiberboard	Walls of Stage in front of Screen	M	F
81	Black Tar Impregnated Fiberboard	Walls of Stage in front of Screen	M	F

Notes: Do Not Positive Stop Drywall System Samples.

Released By: <i>Paul W. Hejzert</i>	Date / Time: <i>4/13/12 0700</i>	Received By:	Date / Time:
Released By:	Date / Time:	Received By:	Date / Time:

PLM REPORT SUMMARY



Cates Laboratories

1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006

NVLAP Lab No. 200569-0
TDH License No. 30-0287

Client: Dougherty Sprague Environmental, Inc.
Project: Paducah Palace Theater, 815 North 8th Street, Paducah, TX
Project No: 1037508
Identification: Asbestos, Bulk Sample Analysis
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)
EPA Method 600/R-93/116

Lab Job No.: PLM-05172
Report Date: 4/26/2012
Sample Date: 4/10/2012

Page 1 of 2

On 4/25/2012, four (4) bulk samples were submitted by Mr. Paul Heidgerd of Dougherty Sprague Environmental, Inc. for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Client Field I.D.	Sample Description/Location	Asbestos Content
CL219400	DUP-01	Blind Duplicate 1	None Detected
CL219401	DUP-02	Blind Duplicate 2	3% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
CL219402	DUP-03	Blind Duplicate 3	None Detected - Paint Texture None Detected - Plaster
CL219403	DUP-04	Blind Duplicate 4	3% Chrysotile (by PLM) 3.50% Chrysotile (by Point Count)

These samples were analyzed by layers. The overall percent asbestos for the sample is reported when relevant. The EPA considers a material to be asbestos containing only if it contains greater than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) – materials that are friable or may become friable – be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. CatesLab utilizes CVAE on a routine basis and does not include point counting unless specifically requested by the client. The results may not be reproduced except in full.

PLM REPORT SUMMARY



Cates Laboratories

1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006

NVLAP Lab No. 200569-0
TDH License No. 30-0287

Client: Dougherty Sprague Environmental, Inc.
Project: Paducah Palace Theater, 815 North 8th Street, Paducah, TX
Project No: 1037508
Identification: Asbestos, Bulk Sample Analysis
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)
EPA Method 600/R-93/116

Lab Job No.: PLM-05172
Report Date: 4/26/2012
Sample Date: 4/10/2012

Page 2 of 2

On 4/25/2012, four (4) bulk samples were submitted by Mr. Paul Heidgerd of Dougherty Sprague Environmental, Inc. for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein.

STATEMENT OF LABORATORY ACCREDITATION

The samples were analyzed in general accordance with the procedures outlined in the Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116 or the U.S. Environmental Protection Agency method, under AHERA, for the analysis of asbestos in building materials by polarized light microscopy. The results of each bulk sample relate only to the material tested and the results shall not be used to claim product endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Specific questions concerning bulk sample results shall be directed to the Laboratory Director.

Analyst: John R. Cates

Laboratory Director: John R. Cates, P.G.

Approved Signatory:



NVLAP LAB CODE 200569-0

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

Page 1 of 1

Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL219400**Field ID #: **DUP-01**Client Sample Description: **Blind Duplicate 1****Layer 1 Ceiling Tile**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			Beige w/wht pt	Fibrous	Yes	60	ND	100	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Binders / Paint	10		Non-fibrous						
Cellulose Fibers	30		ribbons				high		
Mineral Wool Fibers	30		Rods				0		
Perlite	30		Glass Foam				0		
Prep/treatment: mechanical separation				Asbestos Content: None Detected					

Comments:

Analyst: **John R. Cates**Date Analyzed: **4/26/2012**Lab Job #: **PLM-05172**Sample #: **CL219400**

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

Page 1 of 1

Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project #: **1037508**Sample #: **CL219401**Field ID #: **DUP-02**Client Sample Description: **Blind Duplicate 2****Layer 1 Floor Tile**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>		
			Tan	Hard	Yes	ND	ND	98		
PLM Examination:										
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>	
Aggregate/Vinyl Binders	97		Non-fibrous							
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+	
<u>Prep/treatment:</u>	heat / melt			<u>Asbestos Content:</u> 3% Chrysotile						

Layer 2 Black Mastic

Stereoscopic Examination

			Polariscope Examination							
			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>		
			Black	Asphaltic	Yes	ND	ND	2		
PLM Examination:										
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>	
Aggregate/Tar Binders	95		Non-fibrous							
Chrysotile	5	4	Silky / Wavy	None	1.556	1.549	low	Parallel	+	
<u>Prep/treatment:</u>	heat / melt		<u>Asbestos Content:</u> 5% Chrysotile							

Comments:

Analyst: **John R. Cates**Date Analyzed: **4/26/2012**Lab Job #: **PLM-05172**Sample #: **CL219401**

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

Page 1 of 1

Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL219402**Field ID #: **DUP-03**Client Sample Description: **Blind Duplicate 3****Layer 1 Paint Texture**

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Brown	Blocky	Yes	ND	ND	10

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	100		Non-fibrous						
<u>Prep/treatment:</u>	solvent dissolution			<u>Asbestos Content:</u>	None Detected				

Layer 2 Plaster

Stereoscopic Examination

<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>
Tan	Hard / Blocky	Yes	<1	ND	90

PLM Examination:

<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders	100		Non-fibrous						
Hair Fibers	<1		Medulla						
<u>Prep/treatment:</u>	mechanical separation			<u>Asbestos Content:</u>	None Detected				

Comments:

Analyst: **John R. Cates**
Date Analyzed: **4/26/2012**Lab Job #: **PLM-05172**Sample #: **CL219402**

**Cates Laboratories**1720 Regal Row, Suite 210
Dallas, Texas 75235 (214) 920-5006**Bulk Asbestos Analysis Sheet**

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0

TDH License No. 30-0287

Client: **Dougherty Sprague Environmental, Inc.**

Page 1 of 1

Project: **Paducah Palace Theater, 815 North 8th Street, Paducah, TX**Project # **1037508**Sample #: **CL219403**Field ID #: **DUP-04**Client Sample Description: **Blind Duplicate 4****Layer 1 Spray-Applied Tx**

Stereoscopic Examination

			<u>Color</u>	<u>Texture</u>	<u>Homogeneous?</u>	<u>% Fibrous</u>	<u>% Asbestos</u>	<u>% of Sample</u>	
			White	Fibrous	Yes	<1	<1	100	
PLM Examination:									
<u>Components</u>	<u>%</u>	<u>+/-</u>	<u>Morphology</u>	<u>Color/ Pleochroism</u>	<u>Parallel Ref. Index</u>	<u>Perpendicular Ref. Index</u>	<u>Biref</u>	<u>Extinction Angle</u>	<u>Sign of Elongation</u>
Aggregate/Binders/Paint	65		Non-fibrous						
Chrysotile	3	2	Silky / Wavy	None	1.556	1.549	low	Parallel	+
Mica	32		Platelets / Books						
<u>Prep/treatment:</u>	mechanical separation			<u>Asbestos Content:</u>					
					3% Chrysotile (by PLM)				
					3.50% Chrysotile (by Point Count)				

Comments:

Analyst: **John R. Cates**Date Analyzed: **4/26/2012**Lab Job #: **PLM-05172**Sample #: **CL219403**

Dougherty Sprague Environmental, Inc. (dse) TDSHS License No. - 100447 3902 Industrial St. Suite A 414 N. Main St., Suite 216 Rowlett, TX 75088 Euless, TX 76039 972-412-8666 / Fax -8660 817-540-4100 / Fax -4101	Chain of Custody / Bulk Sample Log <div style="border: 1px solid black; padding: 10px; font-size: 2em; font-weight: bold; margin: 10px auto; width: 100px;">dse</div>		Lab Name: Cates Laboratories, Inc.	Page 1 of 1
			Lab Phone No.: 214-920-5006	
			Lab TDSHS License No.: 30-0287	
			Lab Job No.: <u>PLM 5172 (458460)</u>	

ASBESTOS PLM <input type="checkbox"/> Analyze All <input checked="" type="checkbox"/> Positive Stop <input checked="" type="checkbox"/> 1 day <input type="checkbox"/> 2 day <input type="checkbox"/> 3 day <input type="checkbox"/> 5 day <input type="checkbox"/> Immediate				
Client: US Army Corps of Engineers – Fort Worth, Texas		Project: Targeted Brownfields Environmental Site Assessment		Project No.: 1037508
Project Address: Paducah Palace Theater, 815 North 8 th Street, Paducah, Texas				Total No. of Samples: 81
dse Inspector Name: Paul Heidgerd	TDSHS License No.: 10-5739	Mobile No.: 972-897-7136	E-mail: pwheidgerd@dsei.com	Sample Date: 04/10/12

Sample No.	Sample Description	Location / Notes	Type	Friability
DUP-01	Blind Duplicate 1 219400			
DUP-02	Blind Duplicate 2 219401			
DUP-03	Blind Duplicate 3 219402			
DUP-04	Blind Duplicate 4 219403	POINT COUNT ✓		

Notes: Do Not Positive Stop Drywall System Samples.

Released By: <u>Paul Heidgerd</u>	Date / Time: <u>4/25/12 0930</u>	Received By: <u>[Signature]</u>	Date / Time: <u>4/25/12 0939</u>
Released By:	Date / Time:	Received By:	Date / Time:



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

CATES LABORATORIES INC

is certified to perform as a

Asbestos Laboratory PLM

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

A handwritten signature in black ink, reading "David Lakey MD".

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 300287

Expiration Date: 4/7/2013

Control Number: 95710

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200569-0

Cates Laboratories, Inc.
Forney, TX

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

BULK ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2011-04-01 through 2012-03-31

Effective dates



Sally S. Bruce

For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Cates Laboratories, Inc.

613 S. Bois D'Arc

P.O. Box 249

Forney, TX 75126

Mr. John R Cates

Phone: 972-564-4723 Fax: 972-767-0167

E-Mail: jrcates@cateslab.com

URL: <http://www.cateslab.com>

BULK ASBESTOS FIBER ANALYSIS (PLM)

NVLAP LAB CODE 200569-0

NVLAP Code Designation / Description

18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
--------	--

2011-04-01 through 2012-03-31

Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

APPENDIX F

PHOTO LOG

PHOTO LOG

PHOTO 1 ►

Exterior view of the front (west side) of the Paducah Palace Theater.

Taken by: Paul Heidgerd
Direction: East
Date: April 10, 2012



PHOTO 2 ►

Sample Location 11.
5% Chrysotile Asbestos in the
Silver Paint and Roofing Mastic,
3% in the Tan Caulking.

Taken by: Paul Heidgerd
Direction: East
Date: April 10, 2012



PHOTO 3 ►

Sample Location 16.
2% Chrysotile Asbestos in the
Acoustic Wall Panel Mastic.

Taken by: Paul Heidgerd
Date: April 10, 2012



PHOTO LOG

PHOTO 4 ►

Sample Location 32.
4.00% Chrysotile Asbestos in the
“Popcorn” Texture on the Ceiling
and Upper Walls of the entrance
Area.

Taken by: Paul Heidgerd
Date: April 10, 2012



PHOTO 5 ►

Sample Location 34.
2.75% Chrysotile Asbestos in the
“Popcorn Texture” and 1.50%
Chrysotile Asbestos in the Joint
Compound on the Ceiling of the
Lobby.

Taken by: Paul Heidgerd
Direction: Northeast
Date: April 10, 2012



PHOTO 6 ►

Sample Location 39.
2.25% Chrysotile Asbestos in the
Popcorn Texture on the ceiling of
the Ticket Booth.

Taken by: Paul Heidgerd
Direction: South
Date: April 10, 2012



PHOTO LOG

PHOTO 7 ►

Sample Location 43.

5% Chrysotile Asbestos in the Cream with “Marble” Chips 12” x 12” VCT and 5% Chrysotile Asbestos in the Black Mastic on the floor of the Concession Area.

Taken by: Paul Heidgerd

Date: April 10, 2012



PHOTO 8 ►

Sample Locations 46, 47 and 48.

3% Chrysotile Asbestos in the Tan with Gray and Brown 12” x 12” VCT and 5% Chrysotile Asbestos in the Black Mastic on the floor of the Office.

Taken by: Paul Heidgerd

Date: April 10, 2012



PHOTO 9 ►

Sample Location 49.

3% Chrysotile Asbestos in the Olive 12” x 12” VCT and 5% Chrysotile Asbestos in the Black Mastic on the floor of the Lobby.

Taken by: Paul Heidgerd

Date: April 10, 2012



PHOTO LOG

PHOTO 10 ►

Sample Location 52.

10% Chrysotile Asbestos in the Tan 9" x 9" VCT and 5% Chrysotile Asbestos in the Black Mastic on the floor of the Barber Shop (Bottom Layer under Carpet).

Taken by: Paul Heidgerd

Date: April 10, 2012



PHOTO 11 ►

Sample Location 55.

3% Chrysotile Asbestos in the White "Marble" Look 12" x 12" VCT and 5% Chrysotile Asbestos in the Black Mastic on the floor of the Barber Shop (Top Layer under Carpet) Concession Area.

Taken by: Paul Heidgerd

Direction: Southeast

Date: April 10, 2012



PHOTO 12 ►

Sample Locations 73, 74 and 75.

3% Chrysotile Asbestos in the Brown 12" x 12" VCT and 5% Chrysotile Asbestos in the Black Mastic on the floor of the Ticket Booth.

Taken by: Paul Heidgerd

Date: April 10, 2012



PHOTO LOG

PHOTO 13 ►

A view of the North wall of the Seating Area showing the areas of 1' x 1' Acoustic Wall Tiles glued to the wall with asbestos-containing mastic.

Taken by: Paul Heidgerd
Direction: Southeast
Date: April 10, 2012



PHOTO 14 ►

A view of the Northwest corner of the Entrance Area showing the asbestos-containing “Popcorn” Texture on the ceiling and upper walls.

Taken by: Paul Heidgerd
Date: April 10, 2012



PHOTO 15 ►

A view of the closet of the Barber Shop showing the asbestos containing 9” x 9” VCT and Black Mastic flooring.

Taken by: Paul Heidgerd
Direction: West
Date: April 10, 2012



APPENDIX G

“Rough Order of Magnitude” ACBMs Abatement Cost Estimate

ACBMS ABATEMENT COST ESTIMATE
Paducah Palace Theater
815 North 8th Street
Paducah, Texas

ITEM	Total (\$)
ACBM Abatement	\$ 9,800
Waste transport and disposal	\$ 3,400
Water and Electricity	\$ 2,300
Abatement Contractor TOTAL	\$ 15,500
Air Monitoring/Project Management	\$ 6,000
Mileage (Roundtrip Rowlett to Paducah)	\$ 916
Individual Asbestos Consultant	\$ 1,000
Per Diem (per GSA Schedule)	\$ 460
Lodging (per GSA Schedule)	\$ 770
Abatement Specifications	\$ 1,000
Asbestos Consultant TOTAL	\$ 10,146
TDSHS Notification Fees	\$ 453
GRAND TOTAL	\$ 25,646

NOTES Abatement estimated to require ten work days.
SB1258 may allow the bldg. owner to avoid transport/disposal costs.

AN ACT

relating to the disposal of demolition waste from abandoned or nuisance buildings in certain areas.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF TEXAS:

SECTION 1. Subchapter C, Chapter 361, Health and Safety Code, is amended by adding Section 361.126 to read as follows:

Sec. 361.126. DISPOSAL OF DEMOLITION WASTE FROM ABANDONED OR NUISANCE BUILDING. (a) This section applies only to a building that has been:

(1) abandoned or found to be a nuisance;

(2) acquired by the county or municipality by means

of:

(A) bankruptcy;

(B) tax delinquency; or

(C) condemnation; and

(3) previously owned by a person not financially capable of paying the costs of the disposal of demolition waste at a permitted solid waste disposal facility, including transportation of the waste to the facility.

(b) The commission may issue a permit by rule to authorize the governing body of a county or municipality with a population of 10,000 or less to dispose of demolition waste from a building if the disposal occurs on land that:

(1) the county or municipality owns or controls; and

1 (2) would qualify for an arid exemption under
2 commission rules.

3 (c) The commission shall adopt rules under Section 361.024
4 to control the collection, handling, storage, processing, and
5 disposal of demolition waste under this section to protect public
6 and private property, rights-of-way, groundwater, and any other
7 right that requires protection.

8 SECTION 2. This Act takes effect immediately if it receives
9 a vote of two-thirds of all the members elected to each house, as
10 provided by Section 39, Article III, Texas Constitution. If this
11 Act does not receive the vote necessary for immediate effect, this
12 Act takes effect September 1, 2011.

President of the Senate

Speaker of the House

I hereby certify that S.B. No. 1258 passed the Senate on April 19, 2011, by the following vote: Yeas 31, Nays 0.

Secretary of the Senate

I hereby certify that S.B. No. 1258 passed the House on May 3, 2011, by the following vote: Yeas 144, Nays 0, one present not voting.

Chief Clerk of the House

Approved:

Date

Governor

APPENDIX H

Agency and Inspector TDSHS Licenses



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

DOUGHERTY SPRAGUE ENVIRONMENTAL INC

is certified to perform as a

Asbestos Consultant Agency

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

A handwritten signature in black ink, reading "David Lakey MD".

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 100447

Expiration Date: 7/14/2013

Control Number: 96423

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE



Texas Department of State Health Services

Asbestos Individual Consultant

PAUL W HEIDGERD

License No. 105739

Control No. 96210

Expiration Date: 11/8/2013



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Dougherty Sprague Environmental
3902 Industrial Street, Suite A
Rowlett, Texas 75088
Phone: 972-412-8666
Fax: 972-412-8660

June 11, 2012

Ms. Beverly Post
US Army Corps of Engineers, Fort Worth District
819 Taylor Street
Fort Worth, Texas 76102-0300

Re: Targeted Brownfields Assessment - Lead-based Paint Inspection
Paducah Palace Theatre
815 8th Street
Paducah, Cottle County, Texas 79248
dse Project No. 1037508

Dear Ms. Post:

Dougherty Sprague Environmental, Inc. (**dse**) has completed a lead-based paint inspection of the building located on the referenced property. The findings of our work, together with conclusions and recommendations are presented in the attached report.

Should there be any questions concerning this report, please contact us at the number above. It has been a pleasure providing environmental services for US Army Corps of Engineers, Fort Worth District and we look forward to being of continued service.

Sincerely,
Dougherty Sprague Environmental, Inc.

A handwritten signature in blue ink, appearing to read "Deborah Farris", is written over a light blue circular stamp.

Deborah Farris
Lead Risk Assessor
TDSHS License #2070717

A handwritten signature in blue ink, appearing to read "Curtis W. Franklin", is written over a light blue circular stamp.

Curtis W. Franklin, CHMM
President, Principal Scientist

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY	2
2.0 BUILDING DESCRIPTIONS	4
3.0 LEAD-BASED PAINT INSPECTION	5
4.0 FINDINGS	6
5.0 RECOMMENDATIONS	7
6.0 LIMITATIONS	8

APPENDICES

- A. SITE MAP
- B. BACKGROUND INFORMATION ABOUT LEAD
- C. LEAD-BASED PAINTS POSITIVE XRF RESULTS TABLE
- D. ELEVATED LEAD SAMPLE PHOTOGRAPH LOG
- E. BUILDING FLOOR PLAN
- F. LEAD-BASED PAINT ABATEMENT COST ESTIMATE
- G. LEAD XRF RESULTS LOG
- H. LEAD RISK ASSESSOR & **dse** LEAD FIRM LICENSES

TARGETED BROWNFIELDS ASSESSMENT LEAD-BASED PAINT INSPECTION REPORT

**Paducah Palace Theatre
815 8th Street
Paducah, Cottle County, Texas 79248**

dse Project Number: 1037508

1.0 EXECUTIVE SUMMARY

On April 9 & 10, 2012, Dougherty Sprague Environmental, Inc. (**dse**), as authorized by Ms. Elizabeth Crawford, Contract Officer for the United States Army Corp of Engineers (USACE), conducted an inspection for the presence of lead-based paint (LBP) on the building at the Paducah Palace Theatre Site. This is a 0.161 acre tract of land improved with one approximately 5,450 square feet (sf) building located at Latitude 34° 0' 49.9926" N, Longitude -100° 18' 1.8108" W, and is herein referenced as the "Subject Property". This assessment is being provided to the City of Paducah through the U.S. Environmental Protection Agency (EPA) Region 6 Targeted Brownfields Assessment (TBA) program.

The building was visually inspected to identify interior and exterior building components with similar distinct painting histories and the potential to contain LBP. The condition of the painted surfaces was evaluated to identify any deteriorated paint that could potentially cause worker exposure. An X-ray fluorescence analyzer (XRF) was used to measure the concentration of lead in paint on the identified painted building components. The measurement should be considered a surface or near surface measurement because the X-rays penetrate from just a few microns (on metal) to ¼ inch (on plastics and other softer substrates). Paint that contains lead at a concentration equal to or greater than 1 mg/cm² (0.5% by weight) is considered to have an elevated lead concentration and is defined as a LBP by the Texas Department of State Health Services (TDSHS).

The Subject Property contained one building originally constructed in the early 1930's. Based on an estimated construction date of the early 1930's, **dse** anticipated encountering LBP. No previous LBP inspections or LBP abatement reports were provided or reported to exist.

To accomplish this assessment, 67 surface samples were taken using an XRF. Nineteen (19) of the 67 surface samples analyzed contained lead in concentrations ranging from 1 mg/cm² to 3.01 mg/cm². The building survey consisted of 10 rooms and the exterior surfaces. Six of the ten rooms and the exterior of the building tested positive for LBP on one or more surfaces/locations. Four of the ten rooms did not have any positive detection on surfaces for LBP.

The interior surfaces of the building were tested on a room by room basis. Therefore, if a surface or wall within a room tested positive for LBP, it was assumed that like surfaces within that particular room were also positive for LBP. If a surface on the exterior of a building tested

positive for LBP, it can be assumed that like surfaces on the exterior of the building are also positive for LBP. One of approximately every 17 samples collected by XRF was duplicated for Quality Assurance (QA) purposes. A total of three QA duplicates were taken. Standardization, per manufacturer suggested protocols, of the XRF was also conducted for QA purposes approximately every 34 samples.

The building was in extremely poor physical condition and had limited accessibility due to floor rot and clutter. Though several of the rooms were accessible, the auditorium balcony and stage area were inaccessible due to safety issues and were not sampled. Areas not sampled are assumed to contain LBP.

If the building on the Subject Property is demolished, demolition debris containing LBP should be segregated from other demolition debris and then sampled and analyzed using the Toxicity Characteristic Leaching Procedure (TCLP) in order to classify and code the waste for disposal.

If the building on the Subject Property is renovated, the identified LBP should be abated by a TDSHS Licensed Lead Abatement Firm. The work of the Lead Abatement Firm should be monitored by a TDSHS Licensed Lead Inspector or Lead Risk Assessor. Waste containing LBP generated during the LBP abatement should be sampled and analyzed using the TCLP in order to classify and code the waste for disposal. Alternatively the total lead analysis of the waste may be used to demonstrate that the lead concentration in the waste is below the regulatory limits.

The findings of this LBP inspection indicate that demolition or renovation of the buildings on the Subject Property may cause worker exposure to an airborne concentration of lead in excess of the current OSHA standard.

OSHA has published a “Standard Interpretation” letter that allows employers to use objective data to demonstrate that manual demolition of structures, manual scraping and manual sanding of material with paint containing less than 0.06% (0.12 mg/cm²) lead will not expose workers to an airborne concentration of lead above the OSHA “Action Level”. At least one XRF sample in the building exceeded the 0.06% threshold that would allow the use of objective data in place of exposure assessments.

- Based on a review of the OSHA standard for lead (29 CFR 1962.62) and other available information, worker exposure assessments may be required to evaluate the work practices planned at the buildings on the Subject Property.
- Based on the findings of exposure assessment, an OSHA air monitoring program, respiratory protection, and engineering controls may be required for further demolition and renovation activities of the building on the Subject Property.

2.0 BUILDING DESCRIPTIONS

The building was accessible during the inspection with the exception of the auditorium balcony and stage. The roof and interior of the building were in significant disrepair. The roof of the building, as well as the floor of the stage, had collapsed in several places. Floors of selected rooms in the building were also obscured by rubble and/or debris. According to the client representative, Judge D. N. Gregory, the Subject Property was once owned by his mother, who remodeled it in 1973-74 before selling it. According to Paducah Fire Chief Randy Detwiler, the building was damaged by a fire in the early 1980s and was renovated at that time. Fire Chief Detwiler indicated the site has been vacant for at least 20 years.

BUILDING DESCRIPTION FORM	
Name: Paducah Palace Theater	Inspection Dates: April 9 and 10, 2012
Use: Former Theater and Barber Shop	Age: Built 1930's
Area: Main Floor: Approximately 5,500 ft ² Balcony: Approximately 1,200 ft ²	
Number of Floors: Two	Basement: No
Attic (above balcony only): Yes – Not Accessible	Crawl Space: No
Exterior: Structural brick walls with brick veneer.	
Roof: Built-up Asphalt	
Foundation: Concrete Slab	
Interior Framing: Primarily brick covered with two part plaster system, some wood 2x4 studs and drywall or wood paneling. Six steel trusses in roof structure.	
Interior Wall Finishes: Two Coat Plaster System and some Drywall with taped and bedded joints	
Interior Ceiling Finishes: Two Part Plaster System and Three types of Suspended Acoustical Ceiling Tile	
Lighting: Primarily incandescent with some fluorescent – No electricity at time of inspection.	
HVAC: Gas Heaters and Exterior Evaporative Cooler. Both Non-operational.	
Domestic Hot Water: Electric Hot Water Heater	
Out Buildings: None	
Elevators: None	
Previous Lead-based Paint Inspections: No previous Lead-based Paint inspection or abatement reports were available.	
Planned Renovations: Unknown	
Planned Demolition: Unknown	

3.0 LEAD-BASED PAINT INSPECTION

The purpose of the inspection was to identify the presence of LBP within building on the Subject Property, which is targeted for divestiture. The main emphasis of the LBP inspection was to identify suspect lead concentrations in paint on interior and exterior surfaces of the building that would be required to be remediated prior to divestiture. Ms. Deborah Farris performed the LBP inspection. Ms. Farris is a State of Texas licensed and accredited Lead Risk Assessor. A copy of Ms. Farris' accreditation is attached in **Appendix H**.

The sampling guidelines used for the inspection were in general accordance with TDSHS guidelines. The guidelines define criteria for inspections of LBP in "Target Housing" and "Child Occupied Facilities" and though the Subject Property has not been historically used as Target Housing, these criteria were used as the most conservative approach for this site. No samples were physically collected. All sampling was conducted using an XRF analyzer to measure the concentration of lead in paint. Paint that contains lead at a concentration equal to or greater than 1 mg/cm² (0.5% by weight) lead is considered to have an elevated lead concentration and is defined as LBP by the TDSHS.

In addition to the collection of the XRF measurements, the building was visually inspected to identify building components with similar distinct painting histories with the potential to contain LBP. The condition of the painted surfaces was evaluated to identify any deteriorated paint.

To accomplish this assessment, 67 surface samples were taken using an XRF. Nineteen (19) of the 67 surface samples analyzed contained lead in concentrations ranging from 1 mg/cm² to 3.01 mg/cm². The building contained 10 rooms and the exterior. Six of the ten rooms and the exterior of the building tested positive for LBP on one or more surfaces/locations. Four of the ten rooms did not have any positive LBP samples identified.

A Lead-Based Paint Positive XRF Results Table is located in **Appendix C**. Photographs of locations with elevated lead levels are included in **Appendix D**. A complete Lead-Based Paint XRF Results Log is located in **Appendix G**.

The interior of the building was tested on a room by room basis. Therefore, if a surface or wall within a room tested positive for LBP, it was assumed that like surfaces within that particular room were also positive for LBP. If a surface on the exterior of a building tested positive for LBP, it can be assumed that like surfaces on the exterior of the building are also positive for LBP. One of approximately every 17 samples collected by XRF was duplicated for Quality Assurance (QA) purposes. A total of three QA duplicates were taken. Standardization of the XRF was also conducted for QA purposes approximately every 34 samples.

The building was in extremely poor physical condition and had limited accessibility due to floor rot and clutter. Though several of the rooms were accessible, the auditorium balcony and stage area were inaccessible due to safety issues and were not sampled. Areas not sampled are assumed to contain LBP.

4.0 FINDINGS

A total of 67 surface samples were taken using an XRF. Nineteen (19) of the 67 surface samples analyzed contained lead in concentrations ranging from 1 mg/cm² to 3.01 mg/cm². The building contained 10 rooms and the exterior. Six of the ten rooms and the exterior of the building tested positive for LBP on one or more surfaces/locations. Four of the ten rooms did not have any positive LBP samples identified.

A Site Map showing the delineation of the Subject Property building is provided in **Appendix A**. A complete descriptive listing of results can be found in the Lead-Based Paint Positive XRF Results Table in **Appendix C**. Photographs of sample locations with elevated lead concentrations are located in **Appendix D**. A Building Floor Plan of the Subject Property is included in **Appendix E**. The floor plan also indicates the locations of positive LBP samples. A LBP abatement cost estimate is included in **Appendix F** (the cost estimate is currently pending). Approximate square footages of LBP containing areas are given for informational purposes only. If these numbers are used in Abatement Specifications, it is the responsibility of the Abatement Contractor to confirm estimated footage.

5.0 RECOMMENDATIONS

If the buildings on the Subject Property are demolished, demolition debris containing LBP should be segregated from other demolition debris and then sampled and analyzed using the Toxicity Characteristic Leaching Procedure (TCLP) in order to classify and code the waste for disposal.

If the buildings on the Subject Property are renovated, the identified LBP should be abated by a TDSHS Licensed Lead Abatement Firm. The work of the Lead Abatement Firm should be monitored by a TDSHS Licensed Lead Inspector or Lead Risk Assessor. Waste containing LBP generated during the LBP abatement should be sampled and analyzed using the TCLP in order to classify and code the waste for disposal.

The findings of this LBP inspection indicate that demolition or renovation of the buildings on the Subject Property may cause worker exposure to an airborne concentration of lead in excess of the current OSHA standard.

OSHA has published a “Standard Interpretation” letter that allows employers to use objective data to demonstrate that manual demolition of structures, manual scraping and manual sanding of material with paint containing less than 0.06% (0.12 mg/cm²) lead will not expose workers to an airborne concentration of lead above the OSHA “Action Level”. At least one XRF sample in the building exceeded the 0.06% threshold that would allow the use of objective data in place of exposure assessments.

- Based on a review of the OSHA standard for lead (29 CFR 1962.62) and other available information, worker exposure assessments may be required to evaluate the work practices planned at the buildings on the Subject Property.
- Based on the findings of exposure assessment, an OSHA air monitoring program and respiratory protection and engineering controls may be required for further demolition and renovation activities of the building on the Subject Property.

6.0 LIMITATIONS

The assessment, sampling and analysis of LBPs is a highly interpretive activity. Great variability can be experienced in sampling results due to the nature of building construction materials and application techniques, even with experienced personnel and careful sample collection. **dse** has conducted this investigation using trained professionals following applicable government regulations, guidelines and a Standard of Care utilized in the industry, but cannot represent guarantees or warrantee results. This assessment indicates conditions only at the time of sampling in the locations sampled. Conditions at other locations and times may vary significantly from these results, which are limited by budget and time constraints.

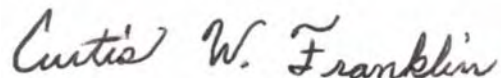
Approximate square footage of LBP containing areas are estimates, given for informational purposes only. If these numbers are used in Abatement Specifications and it is the responsibility of the Abatement Contractor to confirm estimated footages.

In order to understand all of the implications of this report, this entire report, including all attachments and appendices, must be read and understood. **dse** is not responsible for any liabilities arising from failure of the user to read and understand the entire report. If a user has any questions about this report, its contents and/or conclusions, please contact **dse** for clarification.

No warranty is expressed or implied by this report of the LBP inspection described herein. The limit of liability for omissions or errors, if identified, shall be the cost of these services rendered by **dse** to the Client. No use of this report is authorized except as expressly discussed within. Furthermore, as this report is intended for the sole use of The City of Paducah, USACE, and the EPA, reliance is not authorized to other parties except as clearly described in writing by both the Client and **dse**.



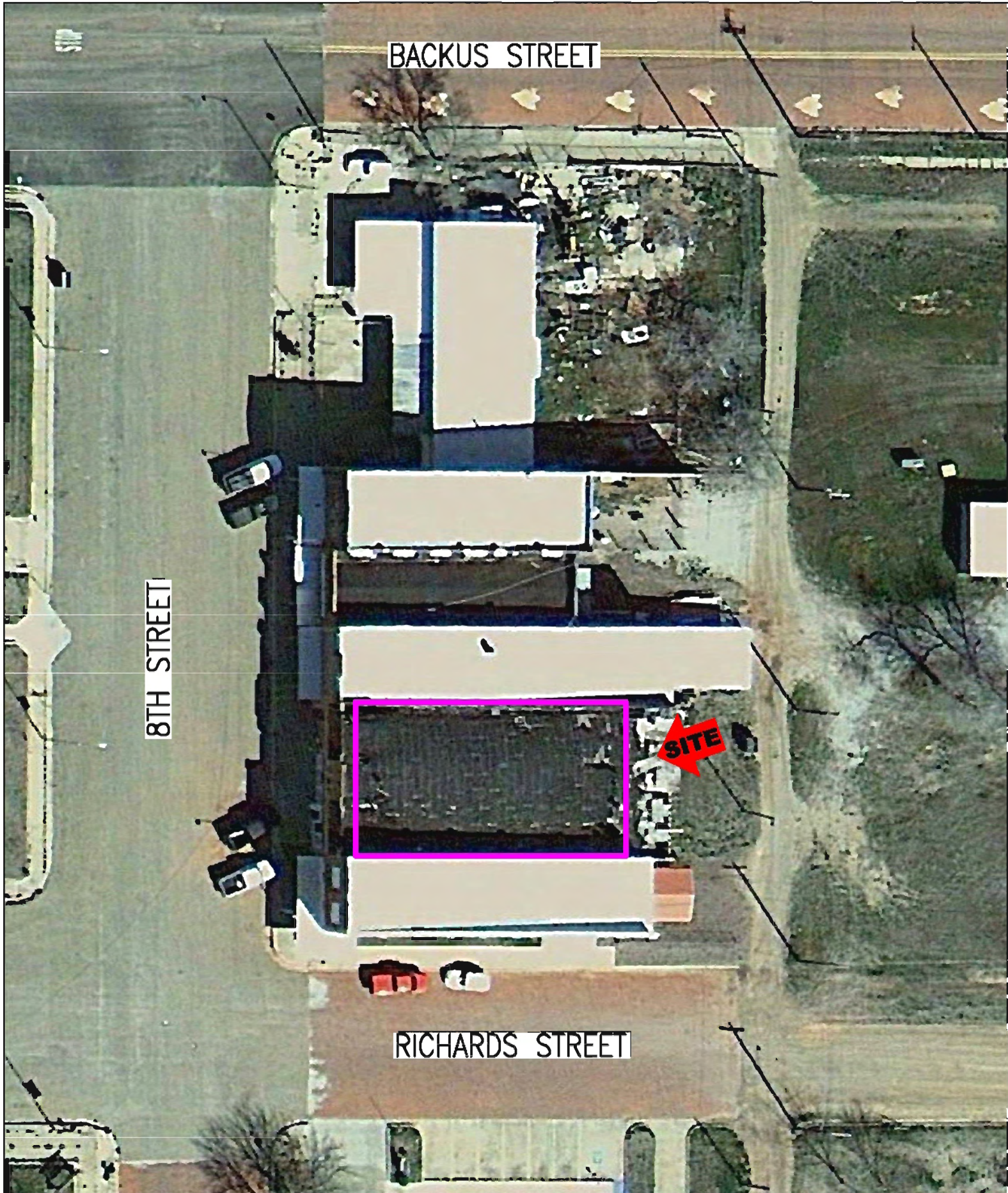
Deborah Farris
Lead Risk Assessor
TDSHS License #207071



Curtis W. Franklin, CHMM
President, Principal Scientist

APPENDIX A

SITE MAP



Dougherty Sprague Environmental, Inc.
3902 Industrial Street, Suite A
Rowlett, Texas 75088

N —————

0' 40'



APPROXIMATE SCALE IN FEET

Source:

Google Earth Mapping Service
Aerial Photograph Date: 2/23/2012

SITE MAP **Lead-based Paint Inspection**

Paducah Palace Theater
815 8th Street
Paducah, Texas 79248

NUMBER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg-LBP1	
APP. SCALE	DRAWN	DATE	PROJECT
1"=40'	CMS	4/25/2012	1037508

APPENDIX B

BACKGROUND INFORMATION ABOUT LEAD

BACKGROUND INFORMATION ABOUT LEAD

Long recognized as a serious public health threat, lead can damage the environment as well as humans, particularly the brain and nervous system. Even a low level of lead exposure can cause human learning disabilities, hearing loss, speech, language and behavior problems, and other serious health effects in children. Lead-contaminated dust and lead contaminated paint are a major source of lead intake for children. Airborne lead enters the body when an individual breathes or swallows lead particles or dust. Paint chips are often picked up and swallowed by small children.

Lead occurs naturally in soils in the environment at very low levels. Relatively high level sources of lead occur in older paint (most modern paints do not contain lead) and pre-1980 car exhaust (the lead from automobile exhaust in vehicles using leaded gasoline is ultimately deposited on the ground in dust, which children play in). Industrial, non-paint sources include smelters, foundries and automobile related manufacturing. Other common lead sources exist such as pewter pitchers and dinnerware, birdshot and fishing weights. In the past, toothpaste tubes were made of lead and condensed milk and other cans were soldered with lead. These materials are now required to be lead-free. Lead can also be found in drinking water from homes and community water systems with lead pipes or copper pipes soldered with lead solder. New building codes require non-lead pipes and lead free solder.

Infants and children most at risk are those living in pre-sixties housing where paint often contained lead. These children, when small, often ingest paint chips or dust from lead-based paint (LBP). Soil in cities with high traffic density and/or airport vicinity areas may contain high levels of lead from car/plane exhaust. There are few clear-cut symptoms of lead poisoning. Very high levels may lead to an acute encephalopathy. Low levels of lead are thought to be detrimental to mental development and have been implicated in decreased IQ and mental functioning. Hard evidence for this, however, is still questionable. Anemia with lead poisoning is common. Specific symptoms are nebulous but hyperirritability, decreased appetite and energy, and loss of recently acquired developmental skills have all been associated with lead poisoning. Abdominal cramping may be present. In severe cases of lead intoxication, encephalopathy develops with vomiting, staggering gait, motor weakness from peripheral neuropathy, seizures and coma.

Effective April 22, 2010, contractors performing renovations, repairs or painting in residences (single and multi-family) and "child occupied facilities" as defined by EPA (daycare centers, elementary schools, hospitals, etc.) built before 1978 that disturbs painted surfaces is now subject to the Renovation, Repair and Painting (RRP) rule. Any activities which disturbs six (6) square feet or more of interior painted surfaces in a room, or twenty (20) square feet of an exterior painted surface, or the replacement of windows regardless of size and number, are covered under the RRP rule.

Under the new rule, in buildings built before 1978, contractors must assume paint disturbing activities involve LBP, or test the paint to be disturbed using an EPA approved chemical spot-test kit to determine if LBP is present. Alternatively, a LBP assessment can be performed by a

state licensed and EPA accredited LBP Inspector using a hand-held XRF analyzer, which provides instant results without physical damage to the painted surface.

APPENDIX C

LEAD-BASED PAINT POSITIVE XRF RESULTS TABLE

XRF LEAD-BASED PAINT POSITIVE TEST RESULTS**InnovX Systems A-6500 R****815 8th Street****Paducah Palace Theatre**

Sample I.D.	Suite/Room/Area	Feature	Component	Substrate	Wall	Lead Measurement (mg/cm ²)	Approximate Footage (ft ²)
3	815	Exterior	Façade - window (brown)	wood		2.49	12
5	Theatre South	Exterior	Façade (brown)	plaster		1.00	16
6	817	Exterior	Façade (white)	plaster		1.90	44
9	817	Exterior	Façade (white)	wood		1.70	44
10	Room 1	Room	Wall (upper)	plaster	B	1.00	8
11	Room 1	Room	Wall (lower)	plaster	C	1.00	72
13	Room 2	Room	Wall (lower)	plaster	B	1.00	144
18	Room 3	Room	Wall (upper)	plaster	A	1.00	96
20	Room 3	Room	Wall (lower)	plaster	A	1.00	294
21	Room 3 - *QA	Room	Wall (lower)	plaster	A	2.12	294
22	Room 3	Room	Wall (white)	plaster	C	1.00	96
24	Room 3	Room	Wall (yellow)	plaster	C	1.96	294
27	Room 3	Room	Ceiling	plaster		2.21	270
47	Room 8	Room	Wall	plaster	A	1.49	98
48	Room 8	Room	Wall	plaster	B	3.01	48
50	Room 9	Room	Wall	plaster	B	1.13	60
51	Room 10	Room	Wall (white)	plaster	A	1.00	2500
53	Room 10	Room	Wall (brown)	plaster	A	1.00	860
55	Room 10	Room	Stage (brown)	drywall	B	1.00	305

A - Wall to right of entrance door; B - Wall opposite of entrance door; C - Wall to left of entrance door; D - Wall containing entrance door

* Performed retesting for quality assurance

APPENDIX D

ELEVATED LEAD SAMPLE PHOTOGRAPH LOG

Elevated Lead Sample Photograph Log

Photo 1 ►

815 8th Street façade.

Taken by: Deborah Farris
Date: 4/09/2012



Photo 2 ►

Paducah Palace Theatre
façade.

Taken by: Deborah Farris
Date: 4/09/2012



Elevated Lead Sample Photograph Log

Photo 3 ►

817 8th Street façade -
Paducah Barber Shop.

Taken by: Deborah Farris
Date: 4/09/2012



Photo 4 ►

Room 1 - Wall B.

Taken by: Deborah Farris
Date: 4/09/2012



Elevated Lead Sample Photograph Log

Photo 5 ►

Room 1 - Wall C.

Taken by: Deborah Farris
Date: 4/09/2012



Photo 6 ►

Room 2 - Wall B.

Taken by: Deborah Farris
Date: 4/09/2012



Elevated Lead Sample Photograph Log

Photo 7 ►

Room 3 - Wall A.

Taken by: Deborah Farris
Date: 4/09/2012



Photo 8 ►

Room 3 - Wall C.

Taken by: Deborah Farris
Date: 4/09/2012



Elevated Lead Sample Photograph Log

Photo 9 ►

Room 3 - Ceiling.

Taken by: Deborah Farris
Date: 4/09/2012



Photo 10 ►

Room 8 - Wall A.

Taken by: Deborah Farris
Date: 4/09/2012



Elevated Lead Sample Photograph Log

Photo 11 ►

Room 8 - Wall B.

Taken by: Deborah Farris
Date: 4/09/2012



Photo 12 ►

Room 9 - Wall B.

Taken by: Deborah Farris
Date: 4/09/2012



Elevated Lead Sample Photograph Log

Photo 13 ►

Room 10 - Wall A.

Taken by: Deborah Farris
Date: 4/09/2012

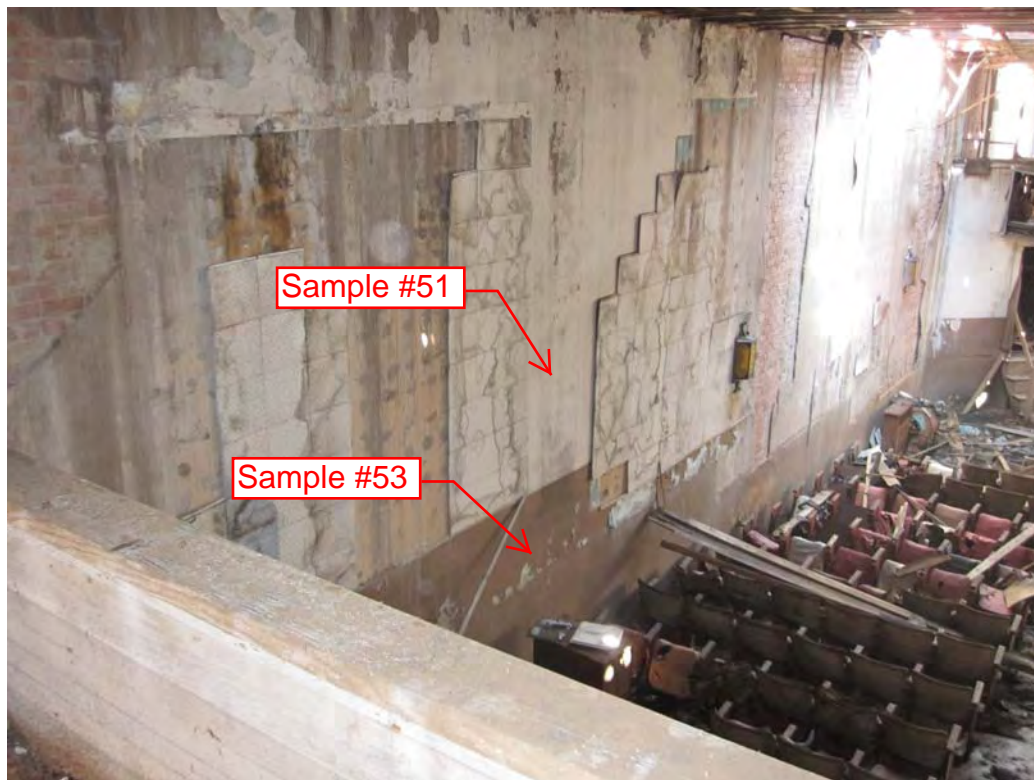


Photo 14 ►

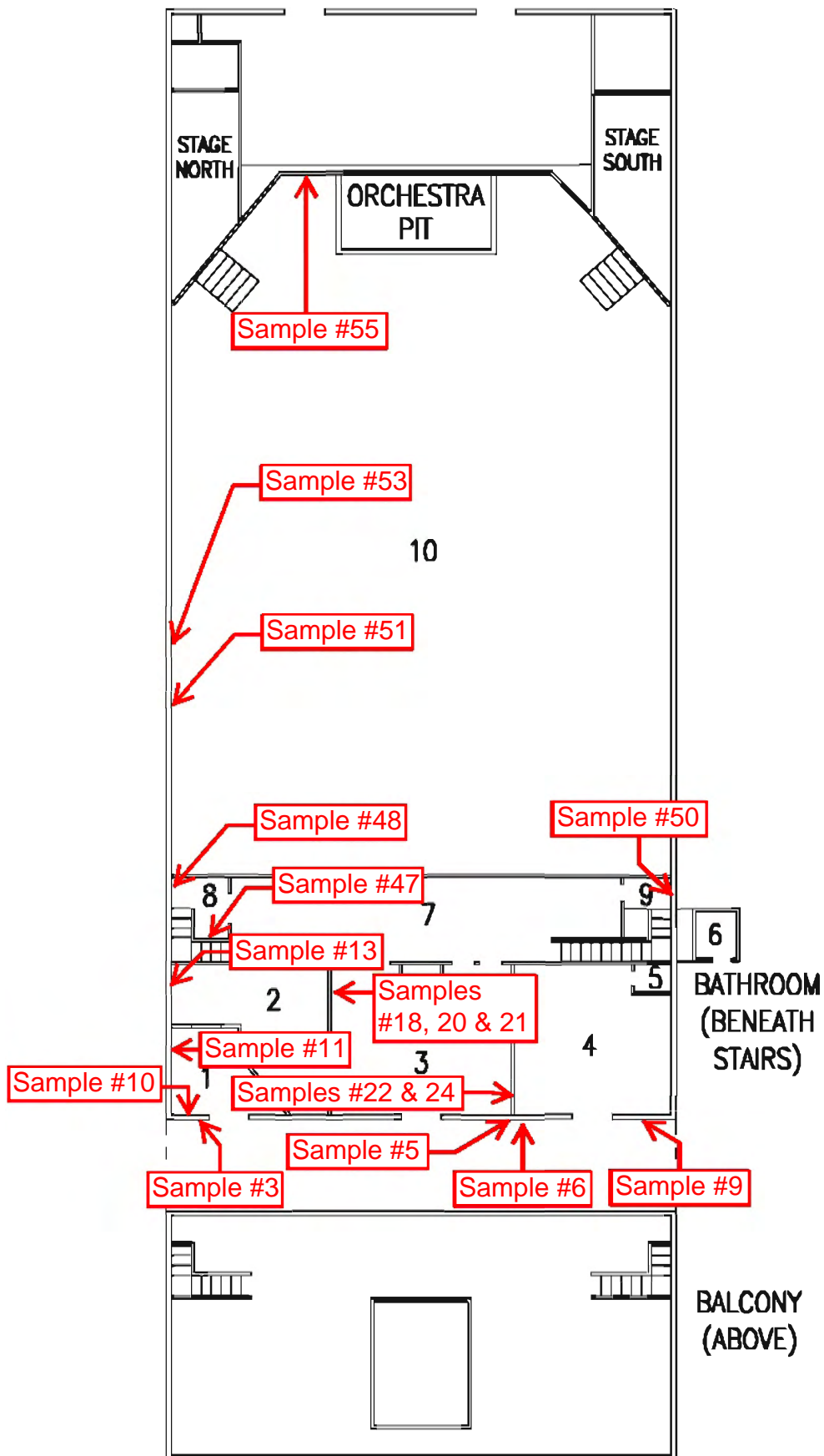
Room 10 - Stage.

Taken by: Deborah Farris
Date: 4/09/2012



APPENDIX E

BUILDING FLOOR PLAN



dse Dougherty Sprague Environmental, Inc.
3902 Industrial Street, Suite A
Rowlett, Texas 75088



**BUILDING FLOOR PLAN
Lead-based Paint Inspection**

Paducah Palace Theater
815 8th Street
Paducah, Texas 79248

REVISION	APP. DATE	FILE NAME
DAF		CAD/Drawing.dwg-LSP2
APP. DATE	DATE	FILE NAME
1"=16'	CMS	4/25/2012 1037506

APPENDIX F

LEAD-BASED PAINT ABATEMENT COST ESTIMATE

LBP ABATEMENT COST ESTIMATE
Paducah Palace Theater
815 North 8th Street
Paducah, Texas

Item	Total
LBP Abatement	\$ 121,699.00
- includes travel, motel, per diem & waste disposal	
Scaffolding/Air lifts	\$ 9,000.00
Abatement Contractor TOTAL	\$ 130,699.00
Air Monitoring/Project Management	\$ 2,400.00
Mileage (Roundtrip Rowlett to Paducah)	\$ 916.00
Per Diem (per GSA Schedule)	\$ 92.00
Lodging (per GSA Schedule)	\$ 154.00
Asbestos Consultant TOTAL	\$ 3,562.00
GRAND TOTAL	\$ 134,261.00

Notes: Abatement estimate to require 25 work days.
2 days of air testing to set exposure levels.
Dustless removal methods used (i.e. chemical strippers).
SB1258 may allow the bldg. owner to avoid transport/disposal costs.

AN ACT

relating to the disposal of demolition waste from abandoned or nuisance buildings in certain areas.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF TEXAS:

SECTION 1. Subchapter C, Chapter 361, Health and Safety Code, is amended by adding Section 361.126 to read as follows:

Sec. 361.126. DISPOSAL OF DEMOLITION WASTE FROM ABANDONED OR NUISANCE BUILDING. (a) This section applies only to a building that has been:

(1) abandoned or found to be a nuisance;

(2) acquired by the county or municipality by means

of:

(A) bankruptcy;

(B) tax delinquency; or

(C) condemnation; and

(3) previously owned by a person not financially capable of paying the costs of the disposal of demolition waste at a permitted solid waste disposal facility, including transportation of the waste to the facility.

(b) The commission may issue a permit by rule to authorize the governing body of a county or municipality with a population of 10,000 or less to dispose of demolition waste from a building if the disposal occurs on land that:

(1) the county or municipality owns or controls; and

1 (2) would qualify for an arid exemption under
2 commission rules.

3 (c) The commission shall adopt rules under Section 361.024
4 to control the collection, handling, storage, processing, and
5 disposal of demolition waste under this section to protect public
6 and private property, rights-of-way, groundwater, and any other
7 right that requires protection.

8 SECTION 2. This Act takes effect immediately if it receives
9 a vote of two-thirds of all the members elected to each house, as
10 provided by Section 39, Article III, Texas Constitution. If this
11 Act does not receive the vote necessary for immediate effect, this
12 Act takes effect September 1, 2011.

President of the Senate

Speaker of the House

I hereby certify that S.B. No. 1258 passed the Senate on April 19, 2011, by the following vote: Yeas 31, Nays 0.

Secretary of the Senate

I hereby certify that S.B. No. 1258 passed the House on May 3, 2011, by the following vote: Yeas 144, Nays 0, one present not voting.

Chief Clerk of the House

Approved:

Date

Governor

APPENDIX G

LEAD XRF RESULTS LOG

XRF LEAD-BASED PAINT TEST RESULTS

Paducah Palace Theatre

815 8th Street

Paducah, Cottle County, Texas 79248

Sample I.D.	Suite/Room/Area	Feature	Component	Substrate	Wall	Lead Measurement (mg/cm ²)	XRF Classification Result
1	Standardization						PASS
2	815	Exterior	Façade (brown)	wood		0.01	Negative
3	815	Exterior	Façade - window (brown)	wood		2.49	Positive
4	Theatre North	Exterior	Façade (brown)	plaster		0.00	Negative
5	Theatre South	Exterior	Façade (brown)	plaster		1.00	Positive
6	817	Exterior	Façade (white)	plaster		1.90	Positive
7	817	Exterior	Façade (red)	plaster		0.00	Negative
8	817	Exterior	Façade (green)	plaster		0.00	Negative
9	817	Exterior	Façade (white)	wood		1.70	Positive
10	Room 1	Room	Wall (upper)	plaster	B	1.00	Positive
11	Room 1	Room	Wall (lower)	plaster	C	1.00	Positive
12	Room 2	Room	Wall (upper)	plaster	B	0.14	Negative
13	Room 2	Room	Wall (lower)	plaster	B	1.00	Positive
14	Room 2	Door	Door (red)	wood	B	0.00	Negative
15	Room 2	Room	Upper Cabinet (white)	wood	C	0.00	Negative
16	Room 2	Room	Lower Cabinet (white)	wood	C	0.00	Negative
17	Room 2	Room	Lower Cabinet (gray)	wood	C	0.00	Negative
18	Room 3	Room	Wall (upper)	plaster	A	1.00	Positive
19	Room 3	Room	Wall (mid)	plaster	A	0.11	Negative
20	Room 3	Room	Wall (lower)	plaster	A	1.00	Positive
21	Room 3 - *QA	Room	Wall (lower)	plaster	A	2.12	Positive
22	Room 3	Room	Wall (white)	plaster	C	1.00	Positive
23	Room 3	Room	Wall (black)	plaster	C	0.04	Negative
24	Room 3	Room	Wall (yellow)	plaster	C	1.96	Positive
25	Room 3	Room	Transom (panel)	wood	D	0.02	Negative
26	Room 3	Room	Transom (frame)	wood	D	0.07	Negative
27	Room 3	Room	Ceiling	plaster		2.21	Positive
28	Room 3	Room	Box Office (ceiling trim)	wood		0.29	Negative
29	Room 4	Room	Wall (upper)	plaster	A	0.18	Negative
30	Room 4	Room	Mirror Trim	wood	B	0.29	Negative
31	Room 4	Room	Mirror Trim	wood	C	0.25	Negative

A - Wall to right of entrance door; B - Wall opposite of entrance door; C - Wall to left of entrance door; D - Wall containing entrance door

* Performed retesting for quality assurance

XRF LEAD-BASED PAINT TEST RESULTS

Paducah Palace Theatre

815 8th Street

Paducah, Cottle County, Texas 79248

Sample I.D.	Suite/Room/Area	Feature	Component	Substrate	Wall	Lead Measurement (mg/cm ²)	XRF Classification Result
32	Room 4	Window	Panel	wood	D	0.02	Negative
33	Room 4	Window	Frame	wood	D	0.00	Negative
34	Room 5	Room	Wall (tan)	drywall	A	0.11	Negative
35	Room 5	Room	Wall	plaster	B	0.01	Negative
36	Room 5	Door	Frame	wood	D	0.00	Negative
37	Room 5	Room	Wall (brown)	drywall	A	0.19	Negative
38	Room 6	Room	Wall	plaster	A	0.00	Negative
39	Room 6	Room	Wall	wood	B	0.00	Negative
40	Room 6 - *QA	Room	Wall	wood	B	0.00	Negative
41	Room 6	Room	Ceiling	wood		0.00	Negative
42	Standardization						PASS
43	Room 7	Room	Wall (white)	drywall	B	0.00	Negative
44	Room 7	Room	Wall (beneath panel)	plaster	D	0.38	Negative
45	Room 7	Room	Ceiling	plaster		0.00	Negative
46	Room 7	Room	Ceiling	drywall		0.02	Negative
47	Room 8	Room	Wall	plaster	A	1.49	Positive
48	Room 8	Room	Wall	plaster	B	3.01	Positive
49	Room 8	Room	Wall	plaster	D	0.00	Negative
50	Room 9	Room	Wall	plaster	B	1.13	Positive
51	Room 10	Room	Wall (white)	plaster	A	1.00	Positive
52	Room 10	Room	Wall (peach)	plaster	A	0.00	Negative
53	Room 10	Room	Wall (brown)	plaster	A	1.00	Positive
54	Room 10	Room	Stage (white)	drywall	B	0.07	Negative
55	Room 10	Room	Stage (brown)	drywall	B	1.00	Positive
56	Room 10	Room	Stage Trim (brown)	wood	B	0.00	Negative
57	Room 10	Room	Stairs North (step)	wood	B	0.34	Negative
58	Room 10	Room	Stairs North (rail)	wood	B	0.13	Negative
59	Room 10	Room	Stairs South (step)	wood	B	0.12	Negative
60	Room 10 - *QA	Room	Stairs South (step)	wood	B	0.21	Negative
61	Room 10	Room	Stairs South (rail)	wood	B	0.14	Negative
62	Room 10	Room	Balcony (panel)	wood	D	0.08	Negative

A - Wall to right of entrance door; B - Wall opposite of entrance door; C - Wall to left of entrance door; D - Wall containing entrance door

* Performed retesting for quality assurance

XRF LEAD-BASED PAINT TEST RESULTS

Paducah Palace Theatre

815 8th Street

Paducah, Cottle County, Texas 79248

Sample I.D.	Suite/Room/Area	Feature	Component	Substrate	Wall	Lead Measurement (mg/cm ²)	XRF Classification Result
63	Room 10	Room	Seat (red)	metal		0.46	Negative
64	Room 10	Room	Seat (gray)	metal		0.08	Negative
65	Room 10 - *QA	Room	Seat (gray)	metal		0.13	Negative
66	Room 10	Room	Orchestra Pit (orange)	concrete		0.06	Negative
67	Room 10	Room	Orchestra Pit (gray))	concrete		0.01	Negative

A - Wall to right of entrance door; B - Wall opposite of entrance door; C - Wall to left of entrance door; D - Wall containing entrance door

* Performed retesting for quality assurance

APPENDIX H

LEAD RISK ASSESSOR & dse LEAD FIRM LICENSES



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

Be it known that

DEBORAH A FARRIS

is certified to perform as a

Lead Risk Assessor

in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas Occupations Code, Chapter 1955 and Title 25, Texas Administrative Code, Chapter 295 relating to Texas Environmental Lead Reduction, as long as this license is not suspended or revoked.

A handwritten signature in black ink, appearing to read "David Lakey MD".

David L. Lakey, M.D.
Commissioner of Health

License Number: 2070717

Expiration Date: 5/26/2013

Void After Expiration Date



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

Be it known that

DOUGHERTY SPRAGUE ENVIRONMENTAL INC

is certified to perform as a

Lead Firm

*in the State of Texas and is hereby governed by the rights, privileges and responsibilities
set forth in Texas Occupations Code, Chapter 1955 and Title 25, Texas Administrative Code, Chapter 295
relating to Texas Environmental Lead Reduction, as long as this license is not suspended or revoked.*

A handwritten signature in black ink, appearing to read "David Lakey".

David L. Lakey, M.D.
Commissioner of Health

License Number: 2110263

Control Number 6306

Expiration Date: 3/12/2013

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE